

31272

Access DB# \_\_\_\_\_

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Michael Willis      Examiner #: 78-393 Date: 12/14/00  
 Art Unit: 1619 Phone Number 305-1679      Serial Number: 09/382708  
 Mail Box and Bldg/Room Location: 3B19 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Cosmetic Composition

Inventors (please provide full names): Son Nguyen Kim, Axel Sanner, Peter Hossel,  
 Wilma M. Dausch.

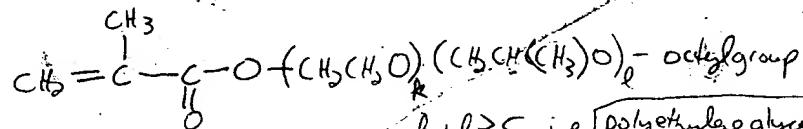
Earliest Priority Filing Date: 8/26/98

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Compound claim

↳ novelty is in combination of t-butyl acrylate (or varient) and acrylic acid (or variant) and compound of claim e.

Claim 1e) very broad; but possibilities include



Point of Contact:  
 John Dantzman  
 Technical Info. Specialist  
 CM1 1E05 Tel: 308-4488 or

urethane methacrylates containing polyethylene glycol  
 or  
 polypropylene glycol,  
 etc.

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: JOHN DANTZMAN	NA Sequence (#)	STN
Searcher Phone #:	AA Sequence (#)	Dialog
Searcher Location:	Structure (#)	Questel/Orbit
Date Searcher Picked Up: 12-27-00	Bibliographic	Dr.Link
Date Completed: 12-29-00	Litigation	Lexis/Nexis
Searcher Prep & Review Time: 50	Fulltext	Sequence Systems
Clerical Prep Time:	Patent Family	WWW/Internet
Online Time: 51	Other	Other (specify)

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(FILE 'HOME' ENTERED AT 10:50:59 ON 29 DEC 2000)

FILE 'HCAPLUS' ENTERED AT 10:51:09 ON 29 DEC 2000

L1 16563 S KIM S?/AU  
L2 1 S AXEL S?/AU  
L3 9 S HOSSEL P?/AU  
L4 14 S DAUSCH W?/AU  
L5 173 S SANNE A?/AU  
L6 0 S L1 AND (L2 OR L5) AND L3 AND L4  
L7 3 S L1 AND L5  
SELECT RN L7 1-3

FILE 'REGISTRY' ENTERED AT 10:52:50 ON 29 DEC 2000

FILE 'HCAPLUS' ENTERED AT 10:52:54 ON 29 DEC 2000

FILE 'REGISTRY' ENTERED AT 10:53:04 ON 29 DEC 2000  
L8 27 S E1-27

FILE 'HCAPLUS' ENTERED AT 10:53:17 ON 29 DEC 2000  
L9 3 S L7 AND L8

Invention Search

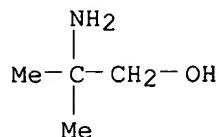
WILLIS 09/382708

Page 2

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L9 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2000 ACS  
 AN 2000:351210 HCAPLUS  
 DN 132:348149  
 TI Water-soluble or -dispersible graft copolymers based on a poly(vinylactam), their preparation and use  
 IN Kim, Son Nguyen; Sanner, Axel; Hossel, Peter;  
 Schehlmann, Volker  
 PA BASF Aktiengesellschaft, Germany  
 SO Eur. Pat. Appl., 15 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1002811	A2	20000524	EP 1999-122635	19991113
	EP 1002811	A3	20000719		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 19853046	A1	20000525	DE 1998-19853046	19981118
	JP 2000178323	A2	20000627	JP 1999-327139	19991117
	CN 1257880	A	20000628	CN 1999-127747	19991118
PRAI	DE 1998-19853046	19981118			
AB	The copolymers (K value 30-70), esp. useful in hair-setting preps., are prep'd. by graft polymg. $\text{CH}_2:\text{CR}_1\text{COXCM}_3$ ( $X = \text{O}$ , $\text{NR}_2$ ; $\text{R}_1, \text{R}_2 = \text{H}$ , C1-6 alkyl) 50-85, $\text{CO}_2\text{H}$ -contg. vinyl monomer(s) 15-30, and $\text{CH}_2:\text{CR}_1\text{COXR}$ ( $R = \text{C}_6\text{-30 alkyl}$ ) 0-25 wt.% onto a polymer (K value 30-50) contg. .gtoreq.30% units derived from .gtoreq.1 N-vinylactam with a (5-7)-membered ring to give a polymer with grafted portion/backbone wt. ratio 100:(5-200), which is at least partially neutralized. Thus, 150 g N-vinylcaprolactam was polymd. for 18 h at 80.degree. in EtOH with tert-Bu perpivalate as initiator, and the resulting polymer soln. was mixed with 60.0 g methacrylic acid and 240 g tert-Bu acrylate in addnl. EtOH and polymd. 11 h at 80.degree., then 95% neutralized with 2-amino-2-methyl-1-propanol to give a polymer soln. which could be directly included in an aerosol hair spray formulation.				
IT	269747-34-4P, 269747-36-6P 269747-38-8P 269747-40-2P 269747-42-4P 269747-44-6P 269747-46-8P 269747-48-0P				
BIOL	RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); (Biological study); PREP (Preparation); USES (Uses) (prepn. of water-sol. or -dispersible graft copolymers based on a poly(vinylactam) for use in hair preps.)				
RN	269747-34-4 HCAPLUS				
CN	2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate and 1-ethenylhexahydro-2H-azepin-2-one, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)				
CM	1				
CRN	124-68-5				
CMF	C4 H11 N O				

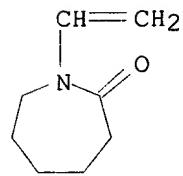


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CRN 269747-33-3  
 CMF (C8 H13 N O . C7 H12 O2 . C4 H6 O2)x  
 CCI PMS  
 CDES 8:PM, GRAFT

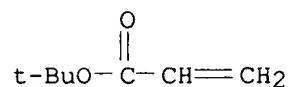
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CRN 2235-00-9  
 CMF C8 H13 N O



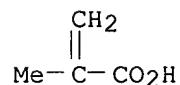
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CRN 1663-39-4  
 CMF C7 H12 O2



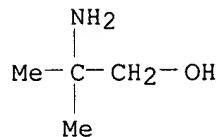
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CRN 79-41-4  
 CMF C4 H6 O2



RN 269747-36-6 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate,  
 1-ethenylhexahydro-2H-azepin-2-one and 1-ethenyl-2-pyrrolidinone, graft,  
 compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

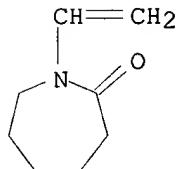
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CRN 124-68-5  
CMF C4 H11 N O

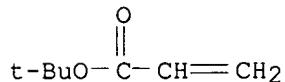
CM 2

CRN 269747-35-5  
CMF (C8 H13 N O . C7 H12 O2 . C6 H9 N O . C4 H6 O2)x  
CCI PMS  
CDES 8:PM, GRAFT

CM 3

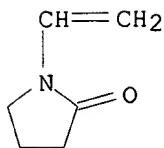
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CMF C8 H13 N O

CM 4

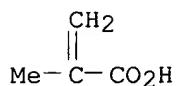
CRN 1663-39-4  
CMF C7 H12 O2

CM 5

CRN 88-12-0  
CMF C6 H9 N O



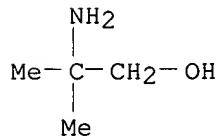
CM 6

CRN 79-41-4  
CMF C4 H6 O2

RN 269747-38-8 HCPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide, 1,1-dimethylethyl 2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one and 1-ethenyl-2-pyrrolidinone, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

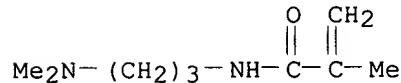
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CRN 124-68-5  
CMF C4 H11 N O

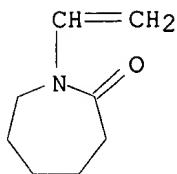
CM 2

CRN 269747-37-7  
CMF (C9 H18 N2 O . C8 H13 N O . C7 H12 O2 . C6 H9 N O . C4 H6 O2)x  
CCI PMS  
CDES 8:PM, GRAFT

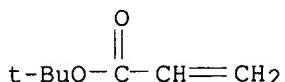
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CRN 5205-93-6  
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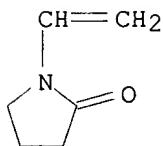
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CRN 2235-00-9  
CMF C8 H13 N O

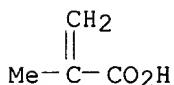
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CRN 1663-39-4  
CMF C7 H12 O2

CM 6

CRN 88-12-0  
CMF C6 H9 N O

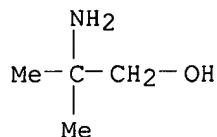
CM 7

CRN 79-41-4  
CMF C4 H6 O2

RN 269747-40-2 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate and 1-ethenyl-2-pyrrolidinone, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5  
 CMF C4 H11 N O

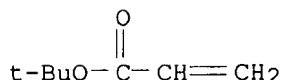


CM 2

CRN 269747-39-9  
 CMF (C7 H12 O2 . C6 H9 N O . C4 H6 O2)x  
 CCI PMS  
 CDES 8:PM, GRAFT

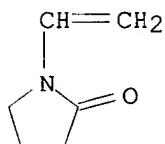
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CRN 1663-39-4  
 CMF C7 H12 O2



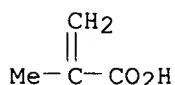
CM 4

CRN 88-12-0  
 CMF C6 H9 N O



CM 5

CRN 79-41-4  
 CMF C4 H6 O2

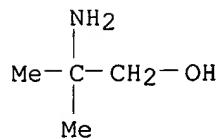


RN 269747-42-4 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate,  
 1-ethenylhexahydro-2H-azepin-2-one and octadecyl 2-methyl-2-propenoate,

graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5  
CMF C4 H11 N O

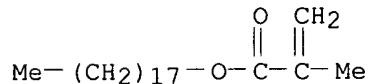


CM 2

CRN 269747-41-3  
CMF (C22 H42 O2 . C8 H13 N O . C7 H12 O2 . C4 H6 O2)x  
CCI PMS  
CDES 8:PM, GRAFT

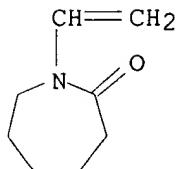
CM 3

CRN 32360-05-7  
CMF C22 H42 O2



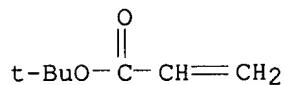
CM 4

CRN 2235-00-9  
CMF C8 H13 N O

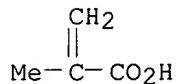


CM 5

CRN 1663-39-4  
CMF C7 H12 O2

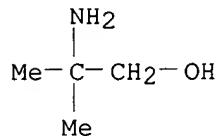


CM 6

CRN 79-41-4  
CMF C4 H6 O2

RN 269747-44-6 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate,  
 1-ethenylhexahydro-2H-azepin-2-one, 1-ethenyl-2-pyrrolidinone and  
 octadecyl 2-methyl-2-propenoate, graft, compd. with 2-amino-2-methyl-1-  
 propanol (9CI) (CA INDEX NAME)

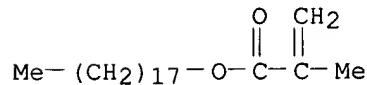
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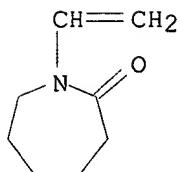
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CCI PMS  
CDES 8:PM, GRAFT

CM 3

CRN 32360-05-7  
CMF C22 H42 O2

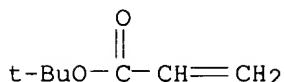
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CRN 2235-00-9  
 CMF C8 H13 N O



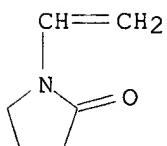
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CRN 1663-39-4  
 CMF C7 H12 O2



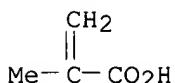
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 CMF C6 H9 N O



CM 7

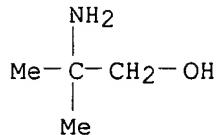
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 CMF C4 H6 O2



RN 269747-46-8 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide, 1,1-dimethylethyl 2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one, 1-ethenyl-2-pyrrolidinone and octadecyl 2-methyl-2-propenoate, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5  
 CMF C4 H11 N O

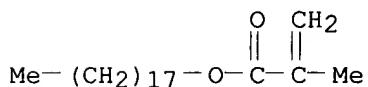


CM 2

CRN 269747-45-7  
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 CCI PMS  
 CDES 8:PM, GRAFT

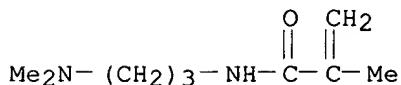
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CRN 32360-05-7  
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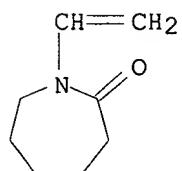
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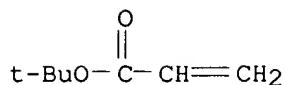


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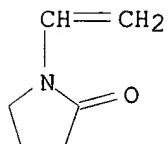
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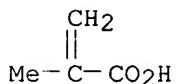
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CMF C7 H12 O2

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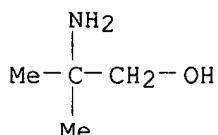
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CMF C6 H9 N O

CM 8

CRN 79-41-4  
CMF C4 H6 O2

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 CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate,  
 1-ethenyl-2-pyrrolidinone and octadecyl 2-methyl-2-propenoate, graft,  
 compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5  
CMF C4 H11 N O

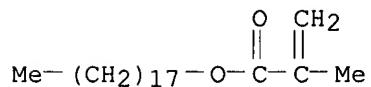
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CRN 269747-47-9

CMF (C<sub>22</sub> H<sub>42</sub> O<sub>2</sub> . C<sub>7</sub> H<sub>12</sub> O<sub>2</sub> . C<sub>6</sub> H<sub>9</sub> N O . C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>)<sub>x</sub>  
 CCI PMS  
 CDES 8:PM, GRAFT

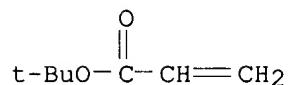
CM 3

CRN 32360-05-7  
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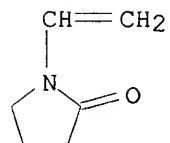
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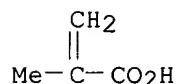
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CRN 88-12-0  
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CM 6

CRN 79-41-4  
 CMF C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>



WILLIS 09/382708

Page 15

=> d bib abs hitstr 2-3

L9 ANSWER 2 OF 3 HCPLUS COPYRIGHT 2000 ACS  
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 TI Hair fixative  
 IN Kim, Son Nguyen; Sanner, Axel; Hoessel, Peter; Dausch, Wilma M.  
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 SO Ger. Offen., 20 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19838851	A1	20000302	DE 1998-19838851	19980826
	JP 2000072613	A2	20000307	JP 1999-238609	19990825
	EP 992235	A1	20000412	EP 1999-116625	19990825
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			CN 1250648	A 20000419 CN 1999-121752 19990826
PRAI	DE 1998-19838851	19980826			
AB	Hair fixatives which show no flaking effect and are compatible with propellant gases are provided which contain film-forming polymers based on				
	a combination of (a) .gtoreq.1 .alpha..beta.-ethylenically unsatd. monomer H <sub>2</sub> C:CR <sub>1</sub> C(O)X <sub>1</sub> CMe <sub>2</sub> (R <sub>1</sub> = H, C <sub>1</sub> -8 alkyl; X <sub>1</sub> = O, NR <sub>2</sub> ; R <sub>2</sub> = H, C <sub>1</sub> -8 alkyl, C <sub>5</sub> -8 cycloalkyl), (b) .gtoreq.1 .alpha..beta.-ethylenically unsatd. mono- or dicarboxylic acid, (c) .gtoreq.1 compd. contg. .gtoreq.1 .alpha..beta.-ethylenically unsatd. double bond and .gtoreq.5 alkylene oxide units, and (d) .gtoreq.1 compd. with .gtoreq.1 .alpha..beta.-ethylenically unsatd. double bond and .gtoreq.1 straight- or branched-chain C <sub>8</sub> -30 alkyl or alkylene group, or their salts. The features of monomers (c) and (d) may be combined in a single monomer mol. These polymers are also useful as coatings or binders for pharmaceuticals,				
	as well as in coatings for the textile, paper, printing, leather, and adhesive industries. Thus, 1 mol Lutensol AT 25 (ethoxylated C <sub>16</sub> -18 fatty				
	alc.) dissolved in 100 g acetone at 60.degree. was mixed with 1 mol isophorone diisocyanate under reflux, followed by 3 mol neopentyl glycol and 4 mol hexamethylene diisocyanate. After reaction of the isocyanates was complete, the mixt. was cooled to 30.degree. and 1 mol Tegomer A-Si 2122 (polysiloxanediamine) was added as an 80% soln. in acetone, followed by 1 mol tert-butylaminoethyl methacrylate at .ltoeq.40.degree. to produce a polyurethane-polymethacrylate.				
IT	79-10-7D, Acrylic acid, esters, polymers 79-41-4D, Methacrylic acid, polymers with amino-terminated polysiloxanes and tert-Bu				
	acrylate and tert-butylaminoethyl methacrylate and diisocyanates and ethoxylated C <sub>16</sub> -18 alcs. and neopentyl glycol and PEG methacrylate and stearyl methacrylate 126-30-7D, Neopentyl glycol, polymers with amino-terminated polysiloxanes and tert-butylaminoethyl methacrylate and ethoxylated C <sub>16</sub> -18 alcs. and hexamethylene diisocyanate and isophorone diisocyanate 822-06-0D, Hexamethylene diisocyanate, polymers with amino-terminated polysiloxanes and tert-butylaminoethyl methacrylate and ethoxylated C <sub>16</sub> -18 alcs. and isophorone diisocyanate and neopentyl glycol 1663-39-4D, tert-Butyl acrylate, polymers with amino-terminated polysiloxanes and tert-butylaminoethyl methacrylate and diisocyanates and ethoxylated C <sub>16</sub> -18 alcs. and methacrylic acid and				

neopentyl glycol and PEG methacrylate and stearyl methacrylate  
**3775-90-4D**, tert-Butylaminoethyl methacrylate, polymers with  
 amino-terminated polysiloxanes and ethoxylated C16-18 alcs. and  
 hexamethylene diisocyanate and isophorone diisocyanate and neopentyl  
 glycol **4098-71-9D**, Isophorone diisocyanate, polymers with  
 amino-terminated polysiloxanes and tert-butylaminoethyl methacrylate and  
 ethoxylated C16-18 alcs. and hexamethylene diisocyanate and neopentyl  
 glycol **32360-05-7D**, Stearyl methacrylate, polymers with  
 amino-terminated polysiloxanes and tert-Bu acrylate and  
 tert-butylaminoethyl methacrylate and diisocyanates and ethoxylated

C16-18

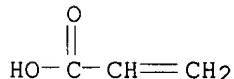
alcs. and methacrylic acid and stearyl methacrylate **259274-26-5**  
**259274-27-6**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(hair fixative)

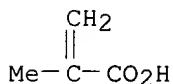
RN 79-10-7 HCPLUS

CN 2-Propenoic acid (9CI) (CA INDEX NAME)



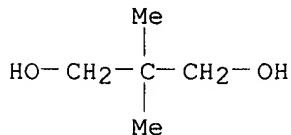
RN 79-41-4 HCPLUS

CN 2-Propenoic acid, 2-methyl- (9CI) (CA INDEX NAME)



RN 126-30-7 HCPLUS

CN 1,3-Propanediol, 2,2-dimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



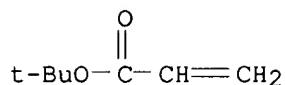
RN 822-06-0 HCPLUS

CN Hexane, 1,6-diisocyanato- (9CI) (CA INDEX NAME)

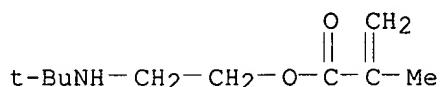
OCN--(CH<sub>2</sub>)<sub>6</sub>--NCO

RN 1663-39-4 HCPLUS

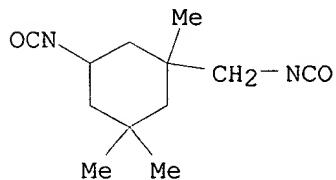
CN 2-Propenoic acid, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



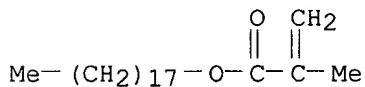
RN 3775-90-4 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-[(1,1-dimethylethyl)amino]ethyl ester  
 (9CI) (CA INDEX NAME)



RN 4098-71-9 HCPLUS  
 CN Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl- (9CI)  
 (CA INDEX NAME)



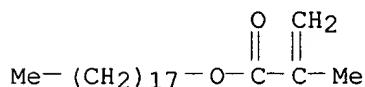
RN 32360-05-7 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, octadecyl ester (9CI) (CA INDEX NAME)



RN 259274-26-5 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate,  
 .alpha.- (2-methyl-1-oxo-2-propenyl)-.omega.-[(2-methyl-1-oxo-2-  
 propenyl)oxy]poly(oxy-1,2-ethanediyl) and octadecyl 2-methyl-2-propenoate  
 (9CI) (CA INDEX NAME)

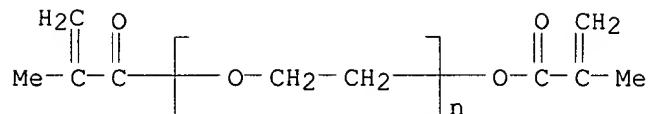
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CRN 32360-05-7  
 CMF C22 H42 O2



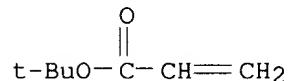
CM 2

CRN 25852-47-5  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>8</sub> H<sub>10</sub> O<sub>3</sub>  
 CCI PMS



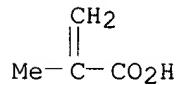
CM 3

CRN 1663-39-4  
 CMF C<sub>7</sub> H<sub>12</sub> O<sub>2</sub>



CM 4

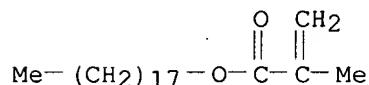
CRN 79-41-4  
 CMF C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>



RN 259274-27-6 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with  
 1,1-dimethylethyl 2-propenoate, .alpha.-{(2-methyl-1-oxo-2-propenyl)-  
 .omega.-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)} and  
 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

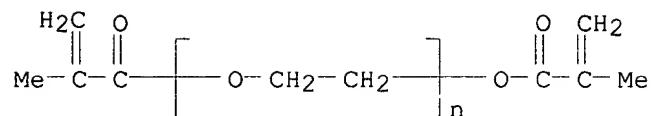
CRN 32360-05-7  
 CMF C<sub>22</sub> H<sub>42</sub> O<sub>2</sub>



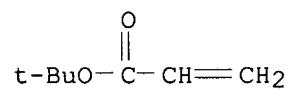
CM 2

CRN 25852-47-5  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>8</sub> H<sub>10</sub> O<sub>3</sub>

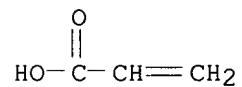
CCI PMS



CM 3

CRN 1663-39-4  
CMF C7 H12 O2

CM 4

CRN 79-10-7  
CMF C3 H4 O2

L9 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2000 ACS  
 AN 1996:676083 HCAPLUS  
 DN 125:308661  
 TI Use of carboxylate-containing film-forming polycondensates in hair sprays  
 IN Kim, Son Nguyen; Sanner, Axel; Hoessel, Peter  
 PA BASF A.-G., Germany  
 SO Eur. Pat. Appl., 6 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 734714	A2	19961002	EP 1996-104378	19960320
	EP 734714	A3	19980415		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT, SE				
	DE 19510684	A1	19961002	DE 1995-19510684	19950327
	CA 2172670	AA	19960928	CA 1996-2172670	19960326
	JP 08268847	A2	19961015	JP 1996-72519	19960327

PRAI DE 1995-19510684 19950327

AB Film-forming polymers for use in hair spray compns. with a high water content are prep'd. by condensation of (A) 2,2-dimethylolpropanoic acid, benzene-1,3,5-tricarboxylic acid, or their C1-8 alkyl esters or acid chlorides, or 5-hydroxyisophthalic acid or its acyl derivs., with (B) a mixt. of (1) a satd. diol and/or C2-8 diamine and (2) a hydroxy monocarboxylic acid, dicarboxylic acid, lactone, or amino acid in an A:B ratio of (0.3-15):(99.7-85). The polycondensates have a glass transition temp. >20.degree. and an acid no. of 30-160. Thus, a condensate was prep'd. by heating a mixt. of benzene-1,3,5-tricarboxylic acid 0.6, 2,2-dimethylolpropanoic acid 0.4, isophthalic acid 8.4, adipic acid 0.2, neopentyl glycol 5, diethylene glycol 5, lactic acid 3, and .epsilon.-caprolactone 1 mol at 160-180.degree. for 3 h under N2 in the presence of 50 ppm tetraisopropyl orthosilicate, then raising the temp.

of

the melt to 220-240.degree. over the next 17 h, and finally heating at 20 mbar to remove remaining water. A pump hair spray was prep'd. contg. this polymer 4.00, 2-amino-2-methylpropanol 0.57, perfume oil and surfactant

as

needed, distd. H2O 40.43, and ETOH 55.00 wt.%.

IT 183139-52-8 183139-53-9 183139-54-0  
 183139-55-1 183139-56-2 183139-58-4  
 183139-59-5 183139-60-8 183140-20-7

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(use of carboxylate-contg. film-forming polycondensates in hair sprays)

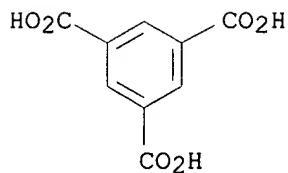
RN 183139-52-8 HCAPLUS

CN 1,3,5-Benzenetricarboxylic acid, polymer with  
 2,2-dimethyl-1,3-propanediol  
 and 2-hydroxypropanoic acid (9CI) (CA INDEX NAME)

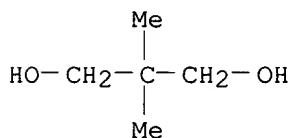
CM 1

CRN 554-95-0

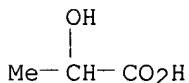
CMF C9 H6 O6



CM 2

CRN 126-30-7  
CMF C5 H12 O2

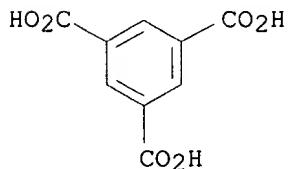
CM 3

CRN 50-21-5  
CMF C3 H6 O3

RN 183139-53-9 HCPLUS

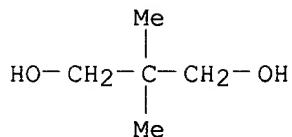
CN 1,3,5-Benzenetricarboxylic acid, polymer with 1,3-benzenedicarboxylic acid, 2,2-dimethyl-1,3-propanediol and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

CM 1

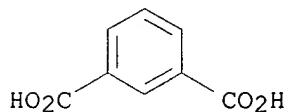
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CMF C9 H6 O6

CM 2

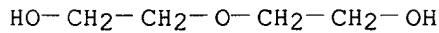
CRN 126-30-7  
CMF C5 H12 O2



CM 3

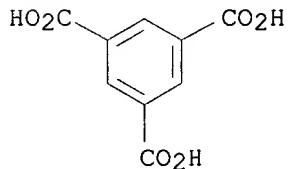
CRN 121-91-5  
CMF C8 H6 O4

CM 4

CRN 111-46-6  
CMF C4 H10 O3

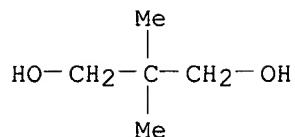
RN 183139-54-0 HCPLUS  
 CN 1,3,5-Benzenetricarboxylic acid, polymer with 1,3-benzenedicarboxylic acid, 2,2-dimethyl-1,3-propanediol, 2-hydroxypropanoic acid and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

CM 1

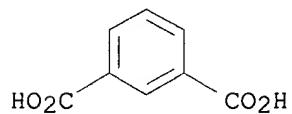
CRN 554-95-0  
CMF C9 H6 O6

CM 2

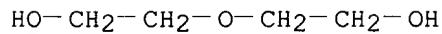
CRN 126-30-7  
CMF C5 H12 O2



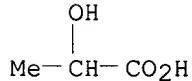
CM 3

CRN 121-91-5  
CMF C8 H6 O4

CM 4

CRN 111-46-6  
CMF C4 H10 O3

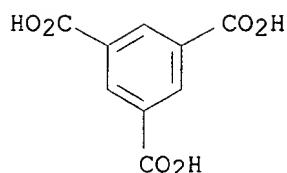
CM 5

CRN 50-21-5  
CMF C3 H6 O3

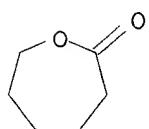
RN 183139-55-1 HCPLUS  
CN 1,3,5-Benzenetricarboxylic acid, polymer with 1,3-benzenedicarboxylic acid, 2,2-dimethyl-1,3-propanediol, 2-oxepanone and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

CM 1

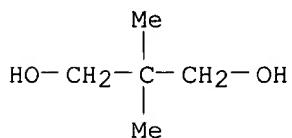
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CMF C9 H6 O6



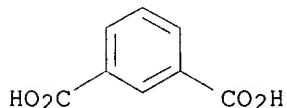
CM 2

CRN 502-44-3  
CMF C6 H10 O2

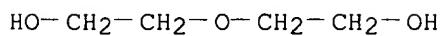
CM 3

CRN 126-30-7  
CMF C5 H12 O2

CM 4

CRN 121-91-5  
CMF C8 H16 O4

CM 5

CRN 111-46-6  
CMF C4 H10 O3

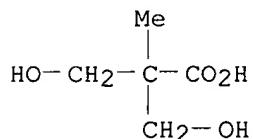
RN 183139-56-2 HCPLUS

CN 1,3,5-Benzenetricarboxylic acid, polymer with 1,3-benzenedicarboxylic acid, 2,2-dimethyl-1,3-propanediol, hexanedioic acid, 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid, 2-hydroxypropanoic acid, 2-oxepanone and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 4767-03-7

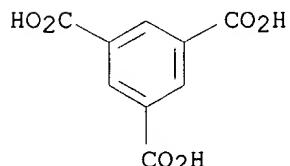
CMF C5 H10 O4



CM 2

CRN 554-95-0

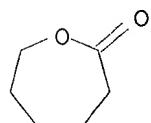
CMF C9 H6 O6



CM 3

CRN 502-44-3

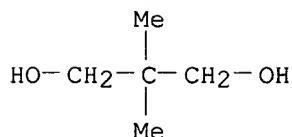
CMF C6 H10 O2



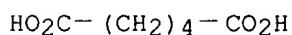
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CRN 126-30-7

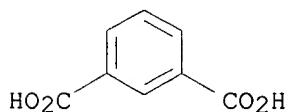
CMF C5 H12 O2



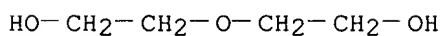
CM 5

CRN 124-04-9  
CMF C6 H10 O4

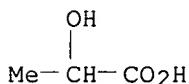
CM 6

CRN 121-91-5  
CMF C8 H6 O4

CM 7

CRN 111-46-6  
CMF C4 H10 O3

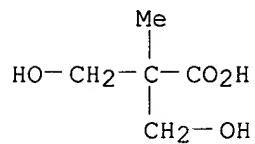
CM 8

CRN 50-21-5  
CMF C3 H6 O3

RN 183139-58-4 HCPLUS  
 CN 1,3-Benzenedicarboxylic acid, polymer with 2,2-dimethyl-1,3-propanediol,  
 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid, 2-hydroxypropanoic  
 acid and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

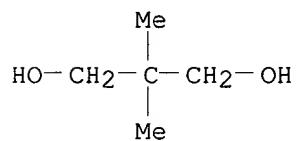
CM 1

CRN 4767-03-7  
CMF C5 H10 O4



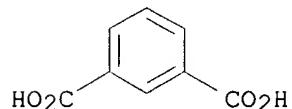
CM 2

CRN 126-30-7  
CMF C5 H12 O2



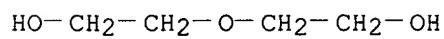
CM 3

CRN 121-91-5  
CMF C8 H6 O4



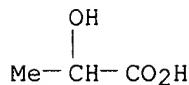
CM 4

CRN 111-46-6  
CMF C4 H10 O3



CM 5

CRN 50-21-5  
CMF C3 H6 O3



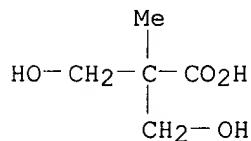
RN 183139-59-5 HCPLUS

CN 1, 3-Benzenedicarboxylic acid, polymer with 1,4-cyclohexanediethanol,  
2,2-dimethyl-1,3-propanediol, 3-hydroxy-2-(hydroxymethyl)-2-  
methylpropanoic acid and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 4767-03-7

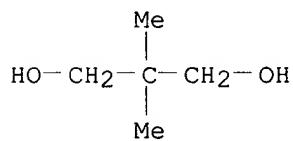
CMF C5 H10 O4



CM 2

CRN 126-30-7

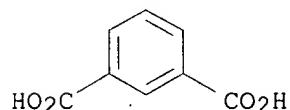
CMF C5 H12 O2



CM 3

CRN 121-91-5

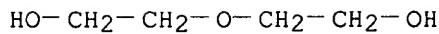
CMF C8 H6 O4



CM 4

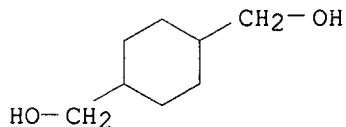
CRN 111-46-6

CMF C4 H10 O3



CM 5

CRN 105-08-8  
CMF C8 H16 O2



RN 183139-60-8 HCAPLUS

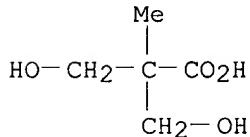
CN 1,3-Benzenedicarboxylic acid, polymer with 1,4-cyclohexanediethanol, 2,2-dimethyl-1,3-propanediol, hexanedioic acid, 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid and 2,2'-oxybis[ethanol] (9CI)

(CA)

INDEX NAME)

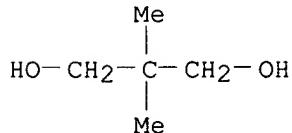
CM 1

CRN 4767-03-7  
CMF C5 H10 O4



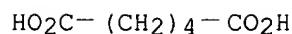
CM 2

CRN 126-30-7  
CMF C5 H12 O2



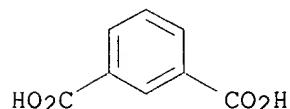
CM 3

CRN 124-04-9  
CMF C6 H10 O4



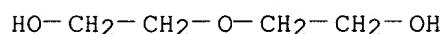
CM 4

CRN 121-91-5  
 CMF C8 H6 O4



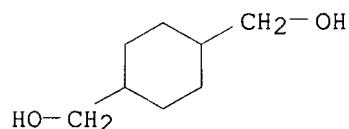
CM 5

CRN 111-46-6  
 CMF C4 H10 O3



CM 6

CRN 105-08-8  
 CMF C8 H16 O2

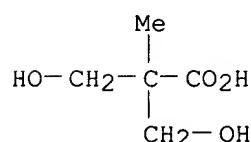


RN 183140-20-7 HCPLUS

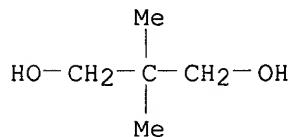
CN 1,3-Benzene dicarboxylic acid, polymer with 1,4-cyclohexanedimethanol, 2,2-dimethyl-1,3-propanediol, hexanedioic acid, 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid and 1,2-propanediol (9CI) (CA INDEX NAME)

CM 1

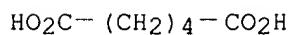
CRN 4767-03-7  
 CMF C5 H10 O4



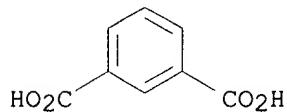
CM 2

CRN 126-30-7  
CMF C5 H12 O2

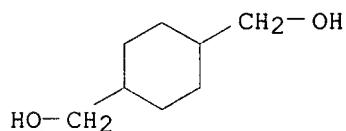
CM 3

CRN 124-04-9  
CMF C6 H10 O4

CM 4

CRN 121-91-5  
CMF C8 H6 O4

CM 5

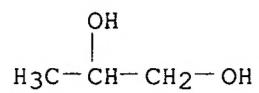
CRN 105-08-8  
CMF C8 H16 O2

CM 6

CRN 57-55-6  
CMF C3 H8 O2

WILLIS 09/382708

Page 33



WILLIS 09/382708

Page 34

=> d his

(FILE 'HOME' ENTERED AT 10:50:59 ON 29 DEC 2000)

FILE 'HCAPLUS' ENTERED AT 10:51:09 ON 29 DEC 2000

L1 16563 S KIM S?/AU  
L2 1 S AXEL S?/AU  
L3 9 S HOSSEL P?/AU  
L4 14 S DAUSCH W?/AU  
L5 173 S SANNE A?/AU  
L6 0 S L1 AND (L2 OR L5) AND L3 AND L4  
L7 3 S L1 AND L5  
SELECT RN L7 1-3

FILE 'REGISTRY' ENTERED AT 10:52:50 ON 29 DEC 2000

FILE 'HCAPLUS' ENTERED AT 10:52:54 ON 29 DEC 2000

FILE 'REGISTRY' ENTERED AT 10:53:04 ON 29 DEC 2000  
L8 27 S E1-27

FILE 'HCAPLUS' ENTERED AT 10:53:17 ON 29 DEC 2000

L9 3 S L7 AND L8

FILE 'REGISTRY' ENTERED AT 11:18:50 ON 29 DEC 2000

L10 STRUCTURE UPLOADED  
L11 38 S L10  
L12 SCR 2043  
L13 50 S L10 AND L12  
E POLYETHER/PCT  
L14 200191 S POLYETHER?/PCT  
L15 5 S L13 AND L14  
L16 STRUCTURE UPLOADED  
L17 50 S L10 AND L16 AND L12  
L18 5 S L14 AND L17  
L19 STRUCTURE UPLOADED  
L20 17 S L10 AND L19 AND L12  
L21 2 S L20 AND L14  
L22 839 S L10 AND L19 AND L12 FUL  
L23 83 S L14 AND L22

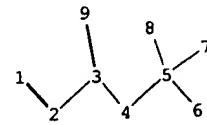
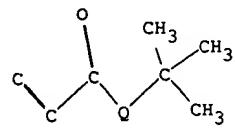
FILE 'CAPLUS' ENTERED AT 11:34:55 ON 29 DEC 2000

L24 46 S L23

FILE 'CAOLD' ENTERED AT 11:40:56 ON 29 DEC 2000

L25 0 S L23

STN Structure : wil382.str



chain nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

1-2 2-3 3-4 3-9 4-5 5-6 5-7 5-8

exact/norm bonds :

3-4 3-9 4-5

exact bonds :

1-2 2-3 5-6 5-7 5-8

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS  
9:CLASS

STN Structure : wil38b.str

Ak

l

chain nodes :

1

Match level :

1:CLASS

Element Count :

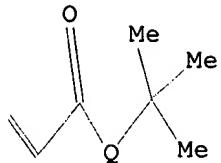
Node 1: Limited

C,C8

=> d que 123

L10

STR



Structure attributes must be viewed using STN Express query preparation.

L12 SCR 2043

L14 200191 SEA FILE=REGISTRY ABB=ON PLU=ON POLYETHER?/PCT  
L19 STR

Ak

Structure attributes must be viewed using STN Express query preparation.

L22 839 SEA FILE=REGISTRY SSS FUL L10 AND L19 AND L12

L23 83 SEA FILE=REGISTRY ABB=ON PLU=ON L14 AND L22

L24 ANSWER 1 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 2000:745558 CAPLUS  
 DN 133:310294

TI Thermally reversible hydrophilic-hydrophobic copolymers and production method thereof

IN Ito, Shoji

PA Agency for Industrial Science and Technology, Japan

SO Jpn. Tokkyo Koho, 10 pp.

CODEN: JTXXFF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 3101714	B1	20001023	JP 1999-130577	19990511
	JP 2000319304	A2	20001121		

AB Title copolymers comprise (A) structure units derived from at least one monomer selected from N-n-propylacrylamide, N-isopropylamide, and N,N-diethylacrylamide and (B) 0.001-10 mol% structure units derived from reactive surfactants represented by

R-p-C<sub>6</sub>H<sub>4</sub>-OCH<sub>2</sub>CH(CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>:CH<sub>2</sub>)(OX)nOSO

3M, CH<sub>2</sub>:CHCH<sub>2</sub>OOCCH(CH<sub>2</sub>COOR)SO<sub>3</sub>M, or CH<sub>2</sub>:C(R')COO(XO)nSO<sub>3</sub>M and having mass av. mol. wt. 1,000,000-10,000,000, where R = higher alkyl, R' = H or Me,

X

= alkylene, M = alkali metal or ammonium, and n = integer of 2-20. Thus, 9.08 g N-isopropylacrylamide and 0.78 g Adeka Reasoap SE 10N (reactive surfactant) were copolymd. using 0.061 g ammonium persulfate at

60.degree.

for 2 to give a polymer with mass av. mol. wt. 1,640,000 and reactive surfactant content 1.11%. A 5% aq. soln. of the resulting polymer showed syneresis rate 86% after kept at 50.degree. for 2.5 h.

IT 301848-32-8P, Adeka Reasoap SE 10N-N-isopropylacrylamide-N-tert-butylacrylamide graft copolymer

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (prepn. of thermally reversible hydrophilic-hydrophobic copolymers useful as syneresis agents)

RN 301848-32-8 CAPLUS

CN 2-Propenamide, N-(1,1-dimethylethyl)-, polymer with N-(1-methylethyl)-2-propenamide and .alpha.-sulfo-.omega.-[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt, graft (9CI) (CA INDEX NAME)

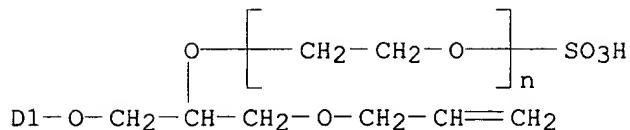
CM 1

CRN 113405-85-9

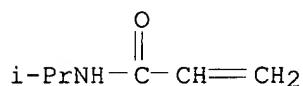
CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>21</sub> H<sub>34</sub> O<sub>6</sub> S . H<sub>3</sub> N

CCI IDS, PMS

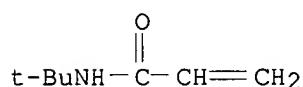
CDES 8:ID

D1 - (CH<sub>2</sub>)<sub>8</sub> - Me• NH<sub>3</sub>

CM 2

CRN 2210-25-5  
CMF C<sub>6</sub> H<sub>11</sub> N O

CM 3

CRN 107-58-4  
CMF C<sub>7</sub> H<sub>13</sub> N O

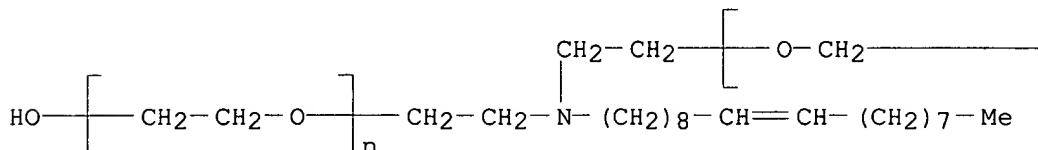
L24 ANSWER 2 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 2000:686296 CAPLUS  
 DN 133:267265  
 TI Water-soluble or water-dispersible polymer salts and their use in cosmetic and pharmaceutical formulations  
 IN Nguyen, Kim Son; Sanner, Axel; Hossel, Peter  
 PA BASF Aktiengesellschaft, Germany  
 SO Eur. Pat. Appl., 31 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1038891	A2	20000927	EP 2000-106470	20000324
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 19913875	A1	20000928	DE 1999-19913875	19990326
	JP 2000302837	A2	20001031	JP 2000-82459	20000323
	CN 1269377	A	20001011	CN 2000-104817	20000327
PRAI	DE 1999-19913875		19990326		
AB	The salts, esp. useful in hair sprays, consist of a polymer with free amino or acid groups and, resp., compds. with .gtoreq.2 acid (or a polybasic inorg. acid) or amino groups, where the latter compd. also contains a hydrophilic group. Thus, a polyester diol (from adipic acid, 1,6-hexanediol, and isophthalic acid) 1.0, neopentyl glycol 1.2, dimethylolpropionic acid 2.7, and IPDI 5.0 mol were polymd. to give a carboxy group-contg. polyurethane, which was neutralized with N-methyldipropyleneetriamine.				
IT	297168-84-4P				
	RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)				
	(water-sol. or water-dispersible polymer salts for use in cosmetic and pharmaceutical formulations)				
RN	297168-84-4	CAPLUS			
CN	2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate and 1,1-dimethylethyl 2-propenoate, compd. with .alpha.,.alpha.'-[(9Z)-9-octadecenylimino]di-2,1-ethanediyl]bis[.omega.-hydroxypoly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)				

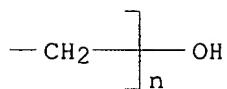
CM 1

CRN 26635-93-8  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>22</sub> H<sub>45</sub> N O<sub>2</sub>  
 CCI PMS  
 CDES 2:Z

PAGE 1-A



PAGE 1-B

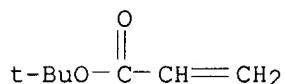


CM 2

CRN 154838-98-9  
CMF (C<sub>7</sub> H<sub>12</sub> O<sub>2</sub> . C<sub>7</sub> H<sub>12</sub> O<sub>2</sub> . C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>)<sub>x</sub>  
CCI PMS

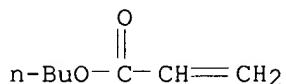
CM 3

CRN 1663-39-4  
CMF C<sub>7</sub> H<sub>12</sub> O<sub>2</sub>



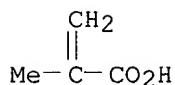
CM 4

CRN 141-32-2  
CMF C<sub>7</sub> H<sub>12</sub> O<sub>2</sub>



CM 5

CRN 79-41-4  
CMF C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>



L24 ANSWER 3 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 2000:665681 CAPLUS  
 DN 133:259344  
 TI Ultraviolet curable resin composition and photosolder resist ink using  
 the same

IN Kubo, Tatsuya; Fuyjimoto, Masatoshi; Hashimoto, Soichi  
 PA Goo Chemical Co., Ltd., Japan  
 SO Eur. Pat. Appl., 19 pp.  
 CODEN: EPXXDW

DT Patent  
 LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1037111	A1	20000920	EP 2000-105770	20000317
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2000330276	A2	20001130	JP 2000-55760	20000301
PRAI	JP 1999-72809		19990317		
	JP 2000-55760		20000301		

AB The invention relates to an UV-curable resin compn. used in UV-curable  
 and thermosetting -type photo solder resist inks developed with aq. alkali  
 soln., pixels and protective films for color filter and in the manuf. of  
 printed wiring boards having fine-line, dense conductive pattern. An UV  
 curable resin compn. includes (A) an UV curable resin, (B) an epoxy  
 compd.

having .gtoreq.2 epoxy groups in 1 mol, (C) a photopolymn. initiator and  
 (D) a diluent. The UV curable resin (A) is obtained by the steps of  
 polymg. an ethylenically unsatd. monomer component contg. (a) an  
 ethylenically unsatd. monomer having epoxy group and (b) a compd. having  
 .gtoreq.2 ethylenically unsatd. groups in 1 mol to prep. a copolymer,  
 reacting the copolymer with (c) an ethylenically unsatd. monomer having  
 carboxyl group to prep. a chem. intermediate, and reacting the chem.  
 intermediate with (d) 1 of satd. and unsatd. polybasic acid anhydrides.  
 This resin compn. will be preferably used to prep. a photo solder resist  
 ink developable with dild. alk. aq. soln.

IT 295327-16-1, Glycidyl methacrylate-polypropylene glycol  
 dimethacrylate-methyl methacrylate-tert-butyl methacrylate copolymer,  
 telomer with lauryl mercaptan, acrylate 296241-01-5, Glycidyl  
 methacrylate-bisphenol A polyethylene glycol polypropylene glycol  
 dimethacrylate-methyl methacrylate-tert-butyl methacrylate copolymer,  
 telomer with lauryl mercaptan, acrylate  
 RL: NUU (Nonbiological use, unclassified); TEM (Technical or engineered  
 material use); USES (Uses)

(UV-curable resin compn. for photosolder resist ink, prepn. of)

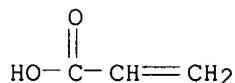
RN 295327-16-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, telomer with  
 1-dodecanethiol, methyl 2-methyl-2-propenoate, .alpha.-[(2-methyl-1-oxo-2-  
 propenyl)-.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]poly[oxy(methyl-1,2-  
 ethanediyl)] and oxiranylmethyl 2-methyl-2-propenoate, 2-propenoate (9CI)  
 (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



CM 2

CRN 295327-15-0  
 CMF C12 H26 S . (C8 H14 O2 . C7 H10 O3 . C5 H8 O2 . (C3 H6 O)n C8 H10 O3)x

CM 3

CRN 112-55-0  
 CMF C12 H26 S

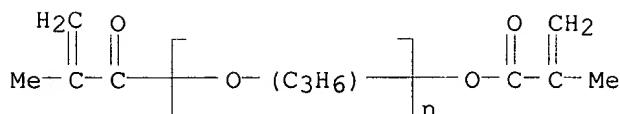
HS--(CH<sub>2</sub>)<sub>11</sub>-Me

CM 4

CRN 295327-14-9  
 CMF (C8 H14 O2 . C7 H10 O3 . C5 H8 O2 . (C3 H6 O)n C8 H10 O3)x  
 CCI PMS

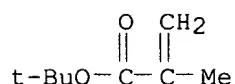
CM 5

CRN 25852-49-7  
 CMF (C3 H6 O)n C8 H10 O3  
 CCI IDS, PMS  
 CDES 8:ID



CM 6

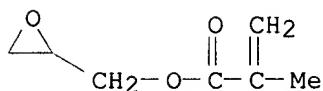
CRN 585-07-9  
 CMF C8 H14 O2



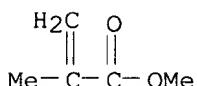
CM 7

CRN 106-91-2

CMF C7 H10 O3



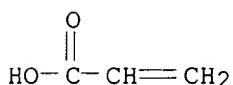
CM 8

CRN 80-62-6  
CMF C5 H8 O2

RN 296241-01-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, telomer with 1-dodecanethiol, methyl 2-methyl-2-propenoate, methyloxirane polymer with oxirane ether with 4,4'-(1-methylethylidene)bis[phenol] (2:1) bis(2-methyl-2-propenoate), and oxiranylmethyl 2-methyl-2-propenoate, 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7  
CMF C3 H4 O2

CM 2

CRN 296241-00-4  
CMF (C15 H16 O2 . C8 H14 O2 . C7 H10 O3 . C5 H8 O2 . 2 C4 H6 O2 . 2 (C3 H6 O . C2 H4 O)x) . C12 H26 S

CM 3

CRN 112-55-0  
CMF C12 H26 SHS- (CH<sub>2</sub>)<sub>11</sub>-Me

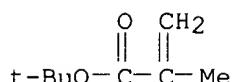
CM 4

CRN 296240-99-8  
CMF (C15 H16 O2 . C8 H14 O2 . C7 H10 O3 . C5 H8 O2 . 2 C4 H6 O2 . 2

CCI (C<sub>3</sub> H<sub>6</sub> O . C<sub>2</sub> H<sub>4</sub> O)x)x  
PMS

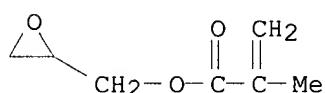
CM 5

CRN 585-07-9  
CMF C<sub>8</sub> H<sub>14</sub> O<sub>2</sub>



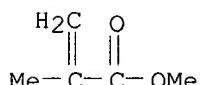
CM 6

CRN 106-91-2  
CMF C<sub>7</sub> H<sub>10</sub> O<sub>3</sub>



CM 7

CRN 80-62-6  
CMF C<sub>5</sub> H<sub>8</sub> O<sub>2</sub>

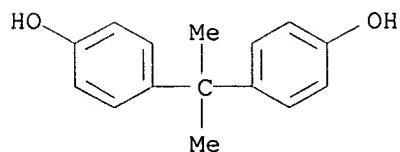


CM 8

CRN 83868-76-2  
CMF C<sub>15</sub> H<sub>16</sub> O<sub>2</sub> . 2 C<sub>4</sub> H<sub>6</sub> O<sub>2</sub> . 2 (C<sub>3</sub> H<sub>6</sub> O . C<sub>2</sub> H<sub>4</sub> O)x  
CDES 8:GD,ESTER,ETHER

CM 9

CRN 80-05-7  
CMF C<sub>15</sub> H<sub>16</sub> O<sub>2</sub>

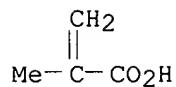


WILLIS 09/382708

Page 12

CM 10

CRN 79-41-4  
CMF C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>

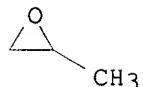


CM 11

CRN 9003-11-6  
CMF (C<sub>3</sub> H<sub>6</sub> O . C<sub>2</sub> H<sub>4</sub> O)x  
CCI PMS

CM 12

CRN 75-56-9  
CMF C<sub>3</sub> H<sub>6</sub> O



CM 13

CRN 75-21-8  
CMF C<sub>2</sub> H<sub>4</sub> O



RE.CNT 2

RE

(1) Goo Chemical Co Ltd; EP 0733683 A 1996 CAPLUS  
(2) Goo Chemical Ind Co Ltd; EP 0864926 A 1998 CAPLUS

L24 ANSWER 4 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 2000:544874 CAPLUS

DN 133:152045

TI Aqueous acrylic emulsion coating compositions

IN Fukuzumi, Tatsushi

PA Mitsubishi Rayon Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2000219844	A2	20000808	JP 1999-23978	19990201
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AB Title compns., having good compatibility and adhesion to fluororesins and useful for building materials, contain polymers prep'd. from tert-Bu (meth)acrylates 5-80, ethylenic unsatd. compds. 0.1-10, and other ethylenic unsatd. compds. 10-94.9%. An aq. emulsion (A) contg.

25:34:39:2

Bu methacrylate-tert-Bu methacrylate-2-ethylhexyl acrylate-methacrylic acid copolymer showed good compatibility to Lumiflon FE 3000 (1:1 A and Lumiflon FE 3000 mixt. giving transparent film) and was mixed with additives, spread on a mortar plate, baked, covered with Lumiflon FE 3000,

and baked to form a plate with good interlayer adhesion.

IT 287178-22-7P, Adipic dihydrazide-butyl methacrylate-tert-butyl methacrylate-cyclohexyl methacrylate-isobornyl acrylate-diacetone acrylamide-Acryester HH-Adekareasoap SE 10N copolymer

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (crosslinked; tert-Bu (meth)acrylate- and COOH-contg. acrylic resin

aq.

coatings with adhesion and compatibility to fluororesins)

RN 287178-22-7 CAPLUS

CN 1,2-Cyclohexanedicarboxylic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with butyl 2-methyl-2-propenoate, cyclohexyl 2-methyl-2-propenoate, 1,1-dimethylethyl

2-methyl-2-propenoate,

N-(1,1-dimethyl-3-oxobutyl)-2-propenamide, hexanedioic acid dihydrazide, .alpha.-sulfo-.omega.-[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt and rel-(1R,2R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

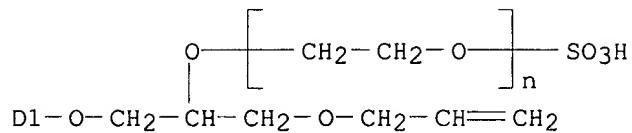
CM 1

CRN 113405-85-9

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>21</sub> H<sub>34</sub> O<sub>6</sub> S . H<sub>3</sub> N

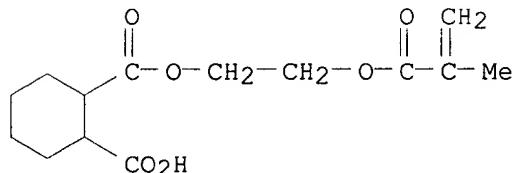
CCI IDS, PMS

CDES 8:ID

D1 - (CH<sub>2</sub>)<sub>8</sub> - Me• NH<sub>3</sub>

CM 2

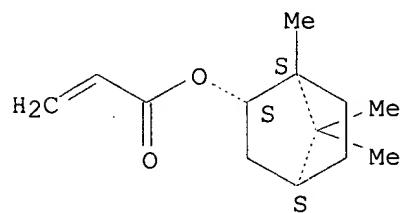
CRN 51252-88-1  
 CMF C<sub>14</sub> H<sub>20</sub> O<sub>6</sub>



CM 3

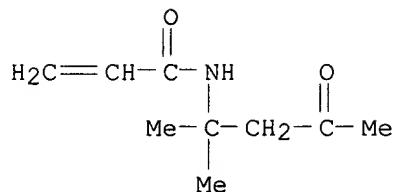
CRN 5888-33-5  
 CMF C<sub>13</sub> H<sub>20</sub> O<sub>2</sub>  
 CDES 2:EXO

Relative stereochemistry.



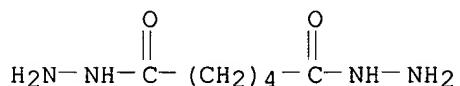
CM 4

CRN 2873-97-4  
 CMF C9 H15 N O2



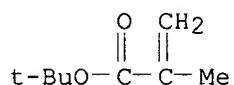
CM 5

CRN 1071-93-8  
 CMF C6 H14 N4 O2



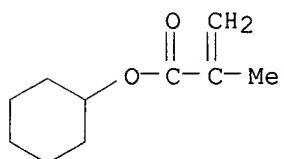
CM 6

CRN 585-07-9  
 CMF C8 H14 O2



CM 7

CRN 101-43-9  
 CMF C10 H16 O2



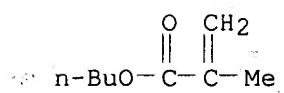
CM 8

CRN 97-88-1  
 CMF C8 H14 O2

WILLIS

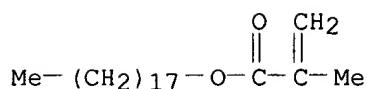
09/382708

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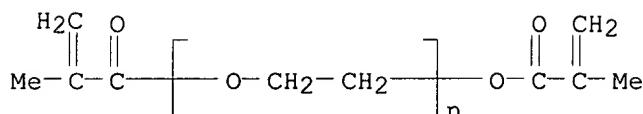
L24 ANSWER 5 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 2000:144053 CAPLUS  
 DN 132:185241  
 TI Hair fixative  
 IN Kim, Son Nguyen; Sanner, Axel; Hoessel, Peter; Dausch, Wilma M.  
 PA BASF A.-G., Germany  
 SO Ger. Offen., 20 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19838851	A1	20000302	DE 1998-19838851	19980826
	JP 2000072613	A2	20000307	JP 1999-238609	19990825
	EP 992235	A1	20000412	EP 1999-116625	19990825
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO		CN 1250648	A	20000419 CN 1999-121752 19990826
PRAI	DE 1998-19838851	19980826			
AB	Hair fixatives which show no flaking effect and are compatible with propellant gases are provided which contain film-forming polymers based on				
	a combination of (a) .gtoreq.1 .alpha.,.beta.-ethylenically unsatd. monomer H <sub>2</sub> C:CR <sub>1</sub> C(O)X <sub>1</sub> CMe <sub>2</sub> (R <sub>1</sub> = H, C <sub>1</sub> -8 alkyl; X <sub>1</sub> = O, NR <sub>2</sub> ; R <sub>2</sub> = H, C <sub>1</sub> -8 alkyl, C <sub>5</sub> -8 cycloalkyl), (b) .gtoreq.1 .alpha.,.beta.-ethylenically unsatd. mono- or dicarboxylic acid, (c) .gtoreq.1 compd. contg. .gtoreq.1 .alpha.,.beta.-ethylenically unsatd. double bond and .gtoreq.5 alkylene oxide units, and (d) .gtoreq.1 compd. with .gtoreq.1 .alpha.,.beta.-ethylenically unsatd. double bond and .gtoreq.1 straight- or branched-chain C <sub>8</sub> -30 alkyl or alkylene group, or their salts. The features of monomers (c) and (d) may be combined in a single monomer mol. These polymers are also useful as coatings or binders for pharmaceuticals,				
	as well as in coatings for the textile, paper, printing, leather, and adhesive industries. Thus, 1 mol Lutensol AT 25 (ethoxylated C <sub>16</sub> -18 fatty				
	alc.) dissolved in 100 g acetone at 60.degree. was mixed with 1 mol isophorone diisocyanate under reflux, followed by 3 mol neopentyl glycol and 4 mol hexamethylene diisocyanate. After reaction of the isocyanates was complete, the mixt. was cooled to 30.degree. and 1 mol Tegomer A-Si 2122 (polysiloxanediamine) was added as an 80% soln. in acetone, followed by 1 mol tert-butylaminoethyl methacrylate at .ltoreq.40.degree. to produce a polyurethane-polymethacrylate.				
IT	259274-26-5 259274-27-6				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(hair fixative)				
RN	259274-26-5 CAPLUS				
CN	2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, .alpha.-{(2-methyl-1-oxo-2-propenyl)-.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)} and octadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)				
CM	1				
CRN	32360-05-7				
CMF	C22 H42 O2				



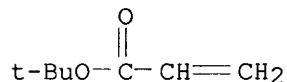
CM 2

CRN 25852-47-5  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>8</sub> H<sub>10</sub> O<sub>3</sub>  
 CCI PMS



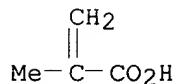
CM 3

CRN 1663-39-4  
 CMF C<sub>7</sub> H<sub>12</sub> O<sub>2</sub>



CM 4

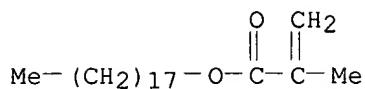
CRN 79-41-4  
 CMF C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>



RN 259274-27-6 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with  
 1,1-dimethylethyl 2-propenoate, .alpha.-{(2-methyl-1-oxo-2-propenyl)-  
 .omega.-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)} and  
 2-propenoic acid (9CI) (CA INDEX NAME)

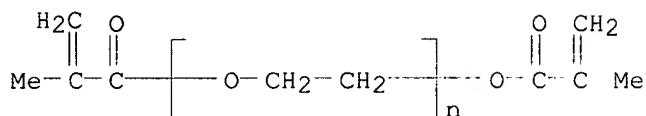
CM 1

CRN 32360-05-7  
 CMF C<sub>22</sub> H<sub>42</sub> O<sub>2</sub>



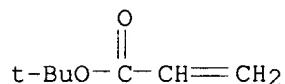
CM 2

CRN 25852-47-5  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>8</sub> H<sub>10</sub> O<sub>3</sub>  
 CCI PMS



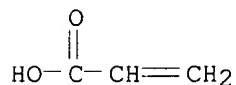
CM 3

CRN 1663-39-4  
 CMF C<sub>7</sub> H<sub>12</sub> O<sub>2</sub>



CM 4

CRN 79-10-7  
 CMF C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>



WILLIS

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Page 21

=> d bib abs hitstr 6-46

L24 ANSWER 6 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 2000:139319 CAPLUS

DN 132:182141

TI Primers for improving the coatability of sealants

IN Hirata, Nobuto; Noda, Sumio

PA Kansai Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000063703	A2	20000229	JP 1998-237865	19980825
AB	The primers are obtained from (A) alkoxy silyl group-contg. acrylic modified epoxy resins, (B) epoxy curing agents and (C) organotin compds. Thus, heating 280 parts Epikote 828EL (epoxy resin) with 1250 parts a copolymer of methacrylic acid 20, styrene 200, Me methacrylate 100, tert-Bu methacrylate 270, 2-ethylhexyl methacrylate 340 and .gamma.-methacryloxypropyltrimethoxysilane 80 parts and 0.2 part tetraethylammonium bromide at 130.degree. for .apprx.2 h gave an acrylic modified epoxy resin which was dild. with 40 parts mineral spirit to give a soln. (A) with 65% solids content and epoxy equiv. wt. 864. Mixing the A 100 with TSL 838 (silane coupler) 5, TSL 8350 (silane coupler) 3, Micro Ace L-1 (talc) 50, A Solvent 42, 7A 122N 90 (ketimine-contg. polyamide curing agent) 33.3, TSL 8331 (silane coupler) 1.7, Stann BL (organotin) 0.8 and mineral spirit 14.2 parts gave a primer which showed good improvement in coatability on a sealer applied on a flexible board surface.				
IT	<b>259232-87-6</b> , 7A122N90-Bisphenol A diglycidyl ether-tert-butyl methacrylate-2-ethylhexyl methacrylate-methacrylic acid-.gamma.-methacryloxypropyltrimethoxysilane-methyl methacrylate-styrene copolymer RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical o: engineered material use); USES (Uses) (primers for improving paintability of sealants)				
RN	259232-87-6 CAPLUS				
CN	2-Propenoic acid, 2-methyl-, polymer with 7A122N90, 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethylhexyl 2-methyl-2-propenoate, 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)bis[oxirane], methyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)				

CM 1

CRN 259229-72-6

CMF Unspecified

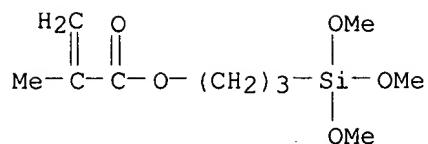
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

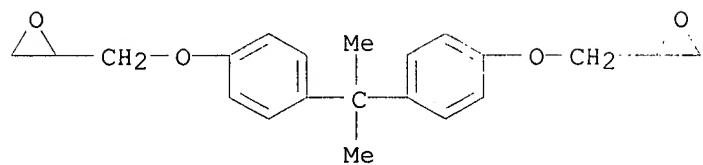
CM 2

CRN 2530-85-0

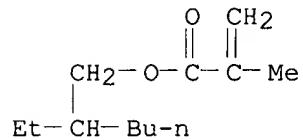
CMF C10 H20 O5 Si



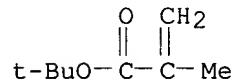
CM 3

CRN 1675-54-3  
CMF C21 H24 O4

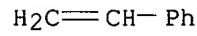
CM 4

CRN 688-84-6  
CMF C12 H22 O2

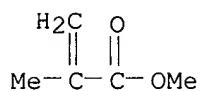
CM 5

CRN 585-07-9  
CMF C8 H14 O2

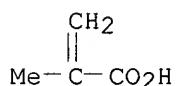
CM 6

CRN 100-42-5  
CMF C8 H8

CM 7

CRN 80-62-6  
CMF C5 H8 O2

CM 8

CRN 79-41-4  
CMF C4 H6 O2

L24 ANSWER 7 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1999:228022 CAPLUS

DN 130:298041

TI Modified epoxy resin-based coating compositions

IN Noda, Sumio; Hirata, Nobuto

PA Kansai Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

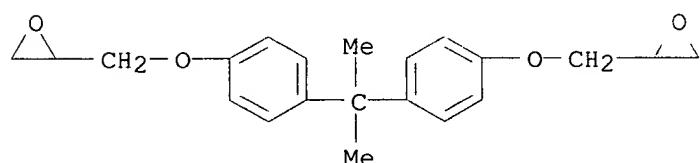
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11092711	A2	19990406	JP 1998-206042	19980722
PRAI	JP 1997-196262		19970723		
AB Title coating compns. are sol. in mineral spirits, provide coatings with good adhesion and corrosion and impact resistance when applied to a sealing material, and comprise (A) a modified epoxy resin, a curing agent for the epoxy resin, and a petroleum solvent. The modified epoxy resin is					
selected from (1) reaction products of an epoxy resin with a carboxy-contg. acrylic resin, (2) reaction products of an epoxy resin with an anhydride group-contg. acrylic resin, and (3) epoxy resins grafted or copolymd. with unsatd. monomers. The curing agent is selected from dimer acid-modified polyamide resins and/or ketaminated dimer acid-modified polyamide resins.					
IT	222989-83-5DP	reaction products RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (modified epoxy resin-based coating compns.)			
RN	222989-83-5	CAPLUS			
CN	2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-methyl-2-propenoate, 2,5-furandione, 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)				

CM 1

CRN 1675-54-3

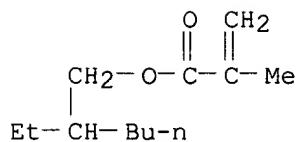
CMF C21 H24 O4



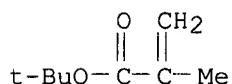
CM 2

CRN 688-84-6

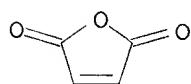
CMF C12 H22 O2



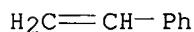
CM 3

CRN 585-07-9  
CMF C8 H14 O2

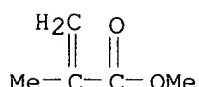
CM 4

CRN 108-31-6  
CMF C4 H2 O3

CM 5

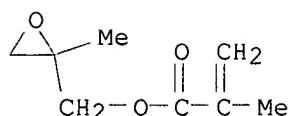
CRN 100-42-5  
CMF C8 H8

CM 6

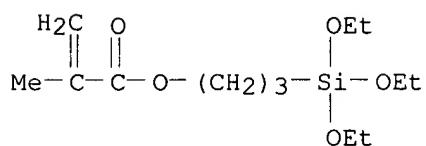
CRN 80-62-6  
CMF C5 H8 O2

L24 ANSWER 8 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1999:208753 CAPLUS  
 DN 130:268593  
 TI Manufacture of thermal-curable acrylic polysiloxane powder coatings  
 IN Adachi, Naoto; Kawamoto, Torimoto; Numa, Nobushige; Ohgoshi, Toshio  
 PA Kansai Paint Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

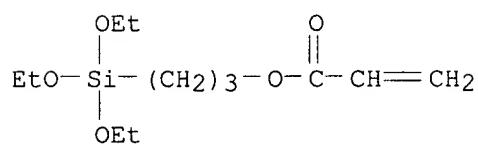
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11080605	A2	19990326	JP 1997-238756	19970904
AB	Title coatings, useful for automobile bodies, are prepd. by dissolving compns. contg. (a) glycidyl group-reactive crosslinkers and (b) vinyl polymers from alkoxy silyl-contg. vinyl compds. R <sub>3</sub> -nSi(OC <sub>m</sub> H <sub>2m+1</sub> ) <sub>n</sub> (R =			
C1-6	alkyl or Ph; when m = 1, n = 2; when m >= 2, n = 2 or 3) 2-15, glycidyl-contg. vinyl compds. 20-50, and other vinyl compds. 35-78% in solvent mixts. consisting of tert-BuOH 50-100, dioxane 0-50, and other solvents 0-20%, followed by freeze-drying in vacuum. Dissolving 25 parts dodecanedioic acid and 200 parts a polymer [from .gamma.- (meth)acryloxypropyltriethoxysilane 8, tert-Bu methacrylate 26, cyclohexyl methacrylate 30, glycidyl methacrylate 17, .beta.-methylglycidyl (meth)acrylate 19 parts] in 190 parts tert-BuOH, freeze-drying at -10.degree. and 10 mmHg, and pulverizing gave a powder, which was deposited on a substrate and baked at 140.degree. for 30 min to form a film with gloss 88% and good scratch resistance.			
IT	221894-83-3P, .gamma.-Acryloxypropyltriethoxysilane-tert-butyl methacrylate-cyclohexyl methacrylate-dodecanedioic acid-glycidyl methacrylate-.gamma.-methacryloxypropyltriethoxysilane-.beta.-methylglycidyl acrylate-.beta.-methylglycidyl methacrylate copolymer <b>221894-84-4P 221894-86-6P 221894-87-7P</b> RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses) (manuf. of diacid-curable glycidyl acrylic siloxane powd. coatings with smoothness and scratch resistance)			
RN	221894-83-3 CAPLUS			
CN	Dodecanedioic acid, polymer with cyclohexyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-propenoate, oxiranyl methyl 2-methyl-2-propenoate, 3-(triethoxysilyl)propyl 2-methyl-2-propenoate and 3-(triethoxysilyl)propyl 2-propenoate (9CI)			
(CA	INDEX NAME)			
CM	1			
CRN	41768-20-1			
CMF	C8 H12 O3			



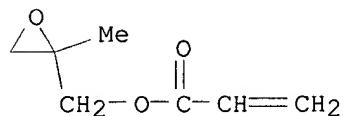
CM 2

CRN 21142-29-0  
CMF C13 H26 O5 Si

CM 3

CRN 20208-39-3  
CMF C12 H24 O5 Si

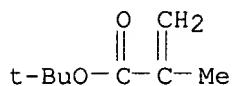
CM 4

CRN 19900-46-0  
CMF C7 H10 O3

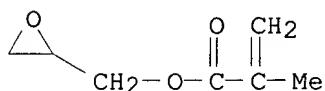
CM 5

CRN 693-23-2  
CMF C12 H22 O4HO2C-(CH2)10-CO2H

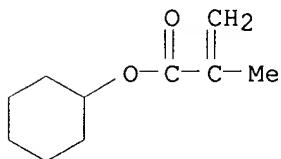
CM 6

CRN 585-07-9  
CMF C8 H14 O2

CM 7

CRN 106-91-2  
CMF C7 H10 O3

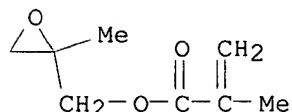
CM 8

CRN 101-43-9  
CMF C10 H16 O2

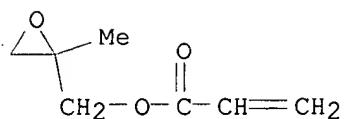
RN 221894-84-4 CAPLUS

CN Dodecanedioic acid, polymer with cyclohexyl 2-methyl-2-propenoate, 3-(dimethoxymethylsilyl)propyl 2-methyl-2-propenoate, 3-(dimethoxymethylsilyl)propyl 2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

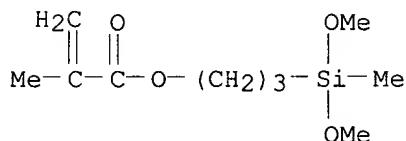
CM 1

CRN 41768-20-1  
CMF C8 H12 O3

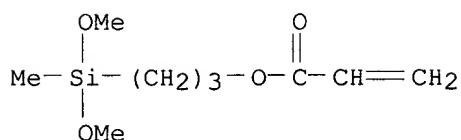
CM 2

CRN 19900-46-0  
CMF C7 H10 O3

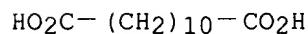
CM 3

CRN 14513-34-9  
CMF C10 H20 O4 Si

CM 4

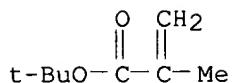
CRN 13732-00-8  
CMF C9 H18 O4 Si

CM 5

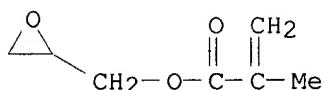
CRN 693-23-2  
CMF C12 H22 O4

CM 6

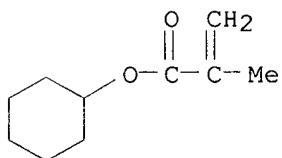
CRN 585-07-9  
CMF C8 H14 O2



CM 7

CRN 106-91-2  
CMF C7 H10 O3

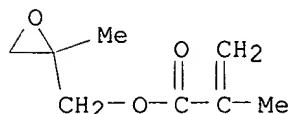
CM 8

CRN 101-43-9  
CMF C10 H16 O2

RN 221894-86-6 CAPLUS

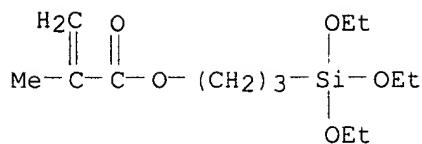
CN Dodecanedioic acid, polymer with cyclohexyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, (2-methyloxiranyl)methyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-propenoate, oxiranylmethyl 2-methyl-2-propenoate, 3-(triethoxysilyl)propyl 2-methyl-2-propenoate and 3-(triethoxysilyl)propyl 2-propenoate (9CI) (CA INDEX NAME)

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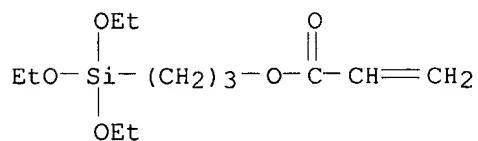
CRN 41768-20-1  
CMF C8 H12 O3

CM 2

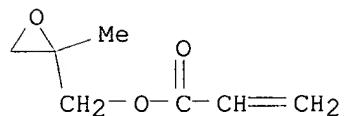
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CMF C13 H26 O5 Si



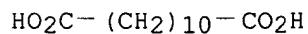
CM 3

CRN 20208-39-3  
CMF C12 H24 O5 Si

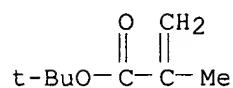
CM 4

CRN 19900-46-0  
CMF C7 H10 O3

CM 5

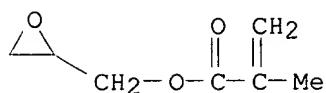
CRN 693-23-2  
CMF C12 H22 O4

CM 6

CRN 585-07-9  
CMF C8 H14 O2

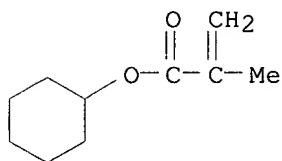
CM 7

CRN 106-91-2  
CMF C7 H10 O3



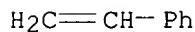
CM 8

CRN 101-43-9  
CMF C10 H16 O2



CM 9

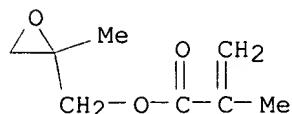
CRN 100-42-5  
CMF C8 H8



RN 221894-87-7 CAPLUS  
CN Dodecanedioic acid, polymer with cyclohexyl 2-methyl-2-propenoate, 3-(dimethoxymethylsilyl)propyl 2-methyl-2-propenoate, 3-(dimethoxymethylsilyl)propyl 2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, (2-methyloxiranyl)methyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

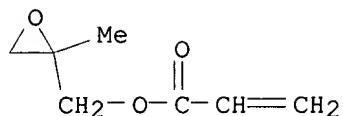
CRN 41768-20-1  
CMF C8 H12 O3



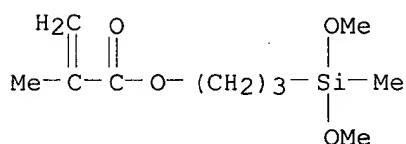
CM 2

CRN 19900-46-0

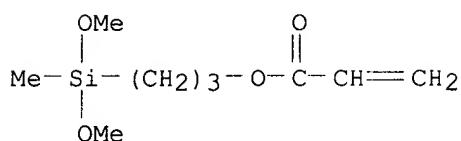
CMF C7 H10 O3



CM 3

CRN 14513-34-9  
CMF C10 H20 O4 Si

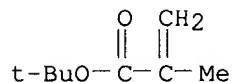
CM 4

CRN 13732-00-8  
CMF C9 H18 O4 Si

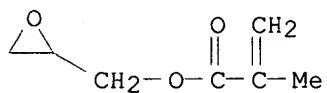
CM 5

CRN 693-23-2  
CMF C12 H22 O4HO<sub>2</sub>C---(CH<sub>2</sub>)<sub>10</sub>---CO<sub>2</sub>H

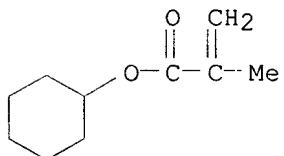
CM 6

CRN 585-07-9  
CMF C8 H14 O2

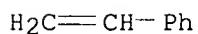
CM 7

CRN 106-91-2  
CMF C7 H10 O3

CM 8

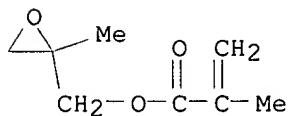
CRN 101-43-9  
CMF C10 H16 O2

CM 9

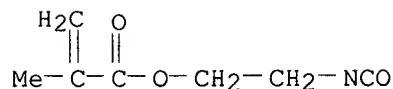
CRN 100-42-5  
CMF C8 H8

L24 ANSWER 9 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1999:206264 CAPLUS  
 DN 130:268591  
 TI Manufacture of thermal-curable vinyl polymer powder coatings  
 IN Adachi, Naoto; Kawamoto, Torimoto; Numa, Nobushige; Ohgoshi, Toshio  
 PA Kansai Paint Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

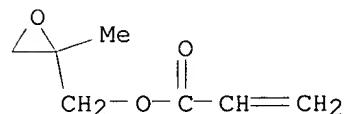
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11080604	A2	19990326	JP 1997-238755	19970904
AB Title coatings, useful for automobile bodies, are prepd. by dissolving compns. contg. (a) acid anhydrides and/or poly(carboxylic acid) crosslinkers and (b) vinyl polymers from NCO-contg. vinyl compds. 2-15, glycidyl-contg. vinyl compds. 20-50, and other vinyl compds. 35-78% in solvent mixts. consisting of tert-BuOH 50-100, dioxane 0-50, and other solvents 0-20%, followed by freeze-drying in vacuum. Dissolving 25 parts dodecanedioic acid and 200 parts a polymer [from iso-Bu methacrylate 8, tert-Bu methacrylate 12, cyclohexyl methacrylate 36, glycidyl methacrylate 17, .beta.-methylglycidyl (meth)acrylate 19, and isocyanatoethyl methacrylate 8 parts] in 190 parts tert-BuOH, freeze-drying at -10.degree. and 10 mmHg, and pulverizing gave a powder, which was deposited on a substrate and baked at 160.degree. for 30 min to form a film with gloss 88% and good scratch resistance.				
IT 221892-92-8P	Isobutyl methacrylate-tert-butyl methacrylate-cyclohexyl methacrylate-dodecanedioic acid-glycidyl methacrylate-isocyanatoethyl methacrylate-.beta.-methylglycidyl acrylate-.beta.-methylglycidyl methacrylate copolymer 221892-94-0P 221892-95-1P			
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)	(manuf. of polyacid (anhydride)-curable glycidyl and isocyanato acrylic polymer powd. coatings with smoothness and scratch resistance)			
RN 221892-92-8 CAPLUS				
CN Dodecanedioic acid, polymer with cyclohexyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, 2-isocyanatoethyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-propenoate, 2-methylpropyl 2-methyl-2-propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)				
CM 1				
CRN 41768-20-1				
CMF C8 H12 O3				



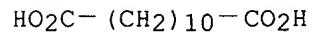
CM 2

CRN 30674-80-7  
CMF C7 H9 N O3

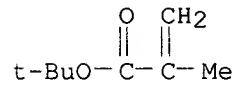
CM 3

CRN 19900-46-0  
CMF C7 H10 O3

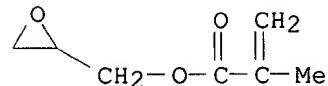
CM 4

CRN 693-23-2  
CMF C12 H22 O4

CM 5

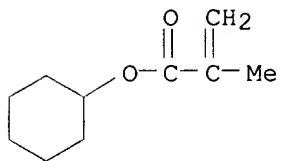
CRN 585-07-9  
CMF C8 H14 O2

CM 6

CRN 106-91-2  
CMF C7 H10 O3

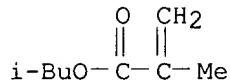
CM 7

CRN 101-43-9  
 CMF C10 H16 O2



CM 8

CRN 97-86-9  
 CMF C8 H14 O2

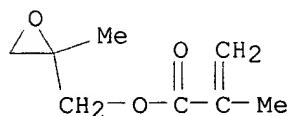


RN 221892-94-0 CAPLUS

CN Dodecanedioic acid, polymer with cyclohexyl 2-methyl-2-propenoate,  
 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene,  
 2-isocyanatoethyl  
 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-methyl-2-propenoate,  
 (2-methyloxiranyl)methyl 2-propenoate, 2-methylpropyl 2-methyl-2-  
 propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX  
 NAME)

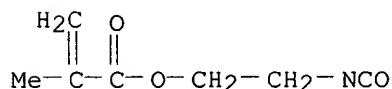
CM 1

CRN 41768-20-1  
 CMF C8 H12 O3

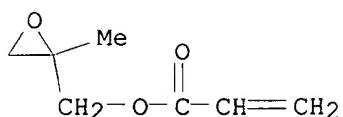


CM 2

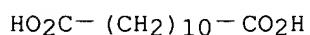
CRN 30674-80-7  
 CMF C7 H9 N O3



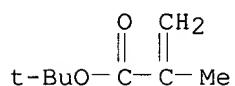
CM 3

CRN 19900-46-0  
CMF C7 H10 O3

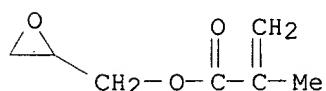
CM 4

CRN 693-23-2  
CMF C12 H22 O4

CM 5

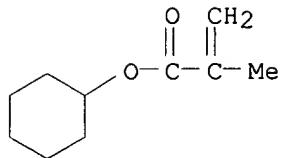
CRN 585-07-9  
CMF C8 H14 O2

CM 6

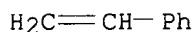
CRN 106-91-2  
CMF C7 H10 O3

CM 7

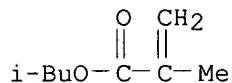
CRN 101-43-9  
CMF C10 H16 O2



CM 8

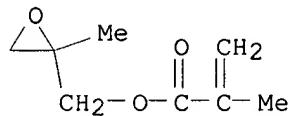
CRN 100-42-5  
CMF C8 H8

CM 9

CRN 97-86-9  
CMF C8 H14 O2

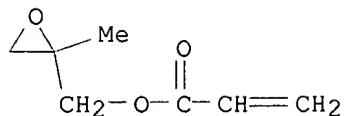
RN 221892-95-1 CAPLUS  
 CN Dodecanedioic acid, polymer with cyclohexyl 2-methyl-2-propenoate,  
 1,1-dimethylethyl 2-methyl-2-propenoate,  
 1-(1-isocyanato-1-methylethyl)-3-  
 (1-methylethlenyl)benzene, (2-methyloxiranyl)methyl 2-methyl-2-propenoate,  
 (2-methyloxiranyl)methyl 2-propenoate, 2-methylpropyl 2-methyl-2-  
 propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX  
 NAME)

CM 1

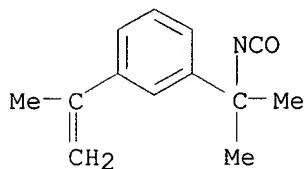
CRN 41768-20-1  
CMF C8 H12 O3

CM 2

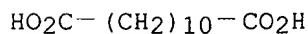
CRN 19900-46-0  
CMF C7 H10 O3



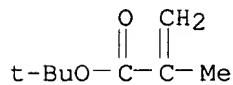
CM 3

CRN 2094-99-7  
CMF C13 H15 N O

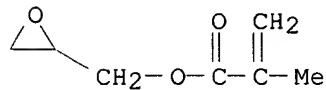
CM 4

CRN 693-23-2  
CMF C12 H22 O4

CM 5

CRN 585-07-9  
CMF C8 H14 O2

CM 6

CRN 106-91-2  
CMF C7 H10 O3

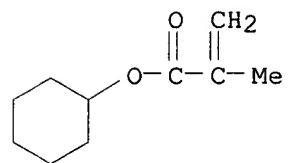
CM 7

CRN 101-43-9

WILLIS 09/382708

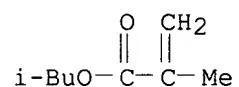
Page 42

CMF C10 H16 O2



CM 8

CRN 97-86-9  
CMF C8 H14 O2



L24 ANSWER 10 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1998:758496 CAPLUS  
 DN 130:53715  
 TI Fluorine-containing surfactants and coating or resist compositions containing them  
 IN Tanaka, kazuyoshi; Higuchi, Torao; Hashimoto, Yutaka  
 PA Dainippon Ink and Chemicals, Inc., Japan  
 SO Jpn. Kokai Tokkyo Koho, 26 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10309455	A2	19981124	JP 1997-122145	19970513
US 6156860	A	20001205	US 1998-24564	19980217

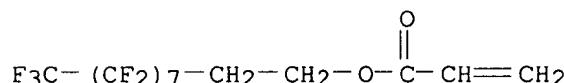
PRAI JP 1997-33717 19970218  
 JP 1997-122145 19970513  
 JP 1998-15407 19980128

AB The surfactants, useful for leveling agents, are copolymers of at least (A) ethylenically unsatd. monomers having fluoroalkyl groups and (B) ethylenically unsatd. monomers having branched aliph. hydrocarbon groups. Thus, CH<sub>2</sub>:CHCO<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C<sub>8</sub>F<sub>17</sub> 19, Me<sub>3</sub>CCH<sub>2</sub>CHMeCH<sub>2</sub>CH<sub>2</sub>CH(CHMeCH<sub>2</sub>CMe<sub>3</sub>)CH<sub>2</sub>OOCCH:CH<sub>2</sub> 30, ethylene oxide-propylene oxide copolymer monoacrylate 39, tetraethylene glycol dimethacrylate 4, and Me methacrylate were copolymd. in Me<sub>2</sub>CHOH in the presence of lauryl mercaptan and AIBN to give a copolymer surfactant, which was added to coatings (acrylic, acrylic-polyurethane, acrylic-melamine, and alkyd-melamine) showing good antifoaming, leveling, and recoating properties.

IT 217174-85-1P  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)  
 (fluoroalkyl (meth)acrylate polymer surfactants for leveling agents for coatings and resists with good recoating properties)

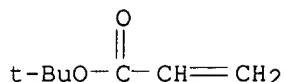
RN 217174-85-1 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, oxybis(2,1-ethanediyoxy-2,1-ethanediyl) ester, polymer with 1,1-dimethylethyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heptadecafluorodecyl 2-propenoate, methyl 2-methyl-2-propenoate and methyloxirane polymer with oxirane mono-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1  
 CRN 27905-45-9  
 CMF C13 H7 F17 O2



CM 2

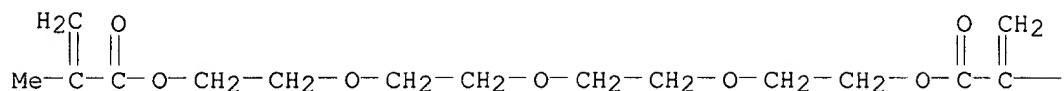
CRN 1663-39-4  
 CMF C7 H12 O2



CM 3

CRN 109-17-1  
CMF C16 H26 O7

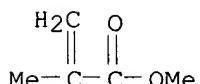
PAGE 1-A



PAGE 1-B

— Me

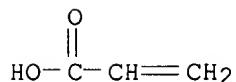
CM 4

CRN 80-62-6  
CMF C5 H8 O2

CM 5

CRN 9041-78-5  
CMF (C3 H6 O . C2 H4 O)x . C3 H4 O2  
CDES 8:GD, ESTER

CM 6

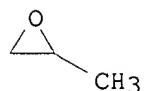
CRN 79-10-7  
CMF C3 H4 O2

CM 7

CRN 9003-11-6  
CMF (C<sub>3</sub> H<sub>6</sub> O . C<sub>2</sub> H<sub>4</sub> O)x  
CCI PMS

CM 8

CRN 75-56-9  
CMF C<sub>3</sub> H<sub>6</sub> O



CM 9

CRN 75-21-8  
CMF C<sub>2</sub> H<sub>4</sub> O



L24 ANSWER 11 OF 46 CAPLUS COPYRIGHT 2000 ACS  
AN 1998:589467 CAPLUS  
DN 129:277489  
TI Aircraft deicing/anti-icing universal fluids  
IN Carder, Charles Hobert; Garska, Daniel Christopher; Jenkins, Richard  
Duane; McGuiness, Mark Joseph  
PA Union Carbide Chemicals and Plastics Technology Corp., USA  
SO Jpn. Kokai Tokkyo Koho, 164 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10237428	A2	19980908	JP 1997-78762	19970224

AB The title fluids comprise an aq. glycol and/or glycerin soln. thickened with a polymeric thickener, and/or its salt after neutralization, in an amt. sufficient to thicken the fluids to permit their adherence to aircraft surfaces when applied to a stationary aircraft but also permit their windshear-induced removal during takeoff, where the thickener comprises 1-99.9% .alpha.,.beta.-unsatd. carboxylic acid(s), 0-98.9% monoethylenically unsatd. monomer(s), 0.1-99% monoethylenically unsatd. monomer(s) contg. one or more pendant hydrophobe moiety, and 0-20% polyethylenically unsatd. monomer(s); the fluids comprise .gtoreq.40% one or more glycols and/or glycerin, .gtoreq.0.05% thickener, neutralizing agent comprising an alkali metal hydroxide in an amt. sufficient to provide a pH .gtoreq.7.1, a surfactant capable of assocg. with the thickener, optionally corrosion inhibitor, dye(s), and water the balance.

IT **158461-24-6P**  
RL: IMF (Industrial manufacture); NUU (Nonbiological use, unclassified);  
PREP (Preparation); USES (Uses)  
(aircraft deicing/anti-icing universal fluids)

RN 158461-24-6 CAPLUS

L24 ANSWER 12 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1998:561325 CAPLUS  
 DN 129:190584  
 TI Producing aqueous ink for ink-jet printing showing good storability and  
 no scorching on printer head and giving high-d. prints with good  
 flexibility.

IN Tsutsumi, Takehiro; Azuma, Koji; Sawada, Michitaka  
 PA Kao Corp., Japan

SO Eur. Pat. Appl., 16 pp.  
 CODEN: EPXXDW

DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 857766	A1	19980812	EP 1998-102013	19980205
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 10279873	A2	19981020	JP 1998-10908	19980123
	US 5998501	A	19991207	US 1998-17222	19980202

PRAI JP 1997-24678 19970207

AB The title process comprises dissolving a salt-forming group-having polymer

and a hydrophobic dye in a water-insol. org. solvent to obtain a soln., adding water and a neutralizing agent optionally together with a surfactant to the soln. to ionize the salt-forming group of the polymer, emulsifying the resulting mixt., and removing out the solvent from the emulsion to obtain an ink contg. an aq. dispersion of the polymer particles in which the dye has been encompassed. A polymer was prep'd. from tert-Bu methacrylate, polyethylene glycol monomethacrylate, acrylic acid, silicone macromer FM 0711, and styrene-acrylonitrile macromer AN 6, neutralized with ammonia, and used with Oil Yellow 129.

IT 211501-40-5P 211501-41-6P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (producing aq. ink for ink-jet printing showing good storability and

no

scorching on printer head and giving high-d. prints with good  
 flexibility.)

RN 211501-40-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, telomer with

.alpha.-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-.omega.-  
 [(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], 1-dodecanethiol,  
 Macromonomer AN 6, .alpha.-{(2-methyl-1-oxo-2-propenyl)}-.omega.-  
 hydroxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid (9CI) (CA INDEX  
 NAME)

CM 1

CRN 112-55-0

CMF C12 H26 S

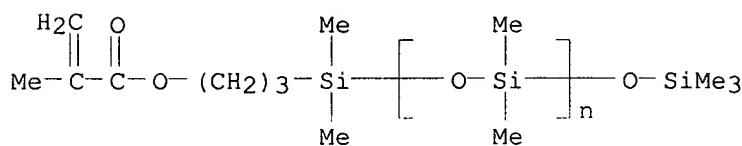
HS- (CH<sub>2</sub>)<sub>11</sub>-Me

CM 2

CRN 211989-72-9  
 CMF (C<sub>8</sub> H<sub>14</sub> O<sub>2</sub> . C<sub>3</sub> H<sub>4</sub> O<sub>2</sub> . (C<sub>2</sub> H<sub>6</sub> O Si)<sub>n</sub> C<sub>12</sub> H<sub>26</sub> O<sub>3</sub> Si<sub>2</sub> . (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>4</sub> H<sub>6</sub> O<sub>2</sub> . Unspecified)x  
 CCI PMS

CM 3

CRN 123109-42-2  
 CMF (C<sub>2</sub> H<sub>6</sub> O Si)<sub>n</sub> C<sub>12</sub> H<sub>26</sub> O<sub>3</sub> Si<sub>2</sub>  
 CCI PMS



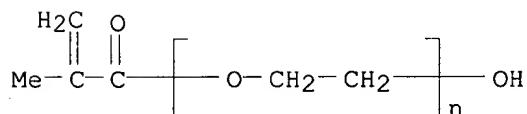
CM 4

CRN 122525-05-7  
 CMF Unspecified  
 CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

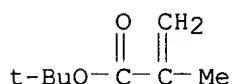
CM 5

CRN 25736-86-1  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>  
 CCI PMS



CM 6

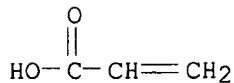
CRN 585-07-9  
 CMF C<sub>8</sub> H<sub>14</sub> O<sub>2</sub>



CM 7

CRN 79-10-7

CMF C3 H4 O2



RN 211501-41-6 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, telomer with

.alpha.-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-.omega.-  
 [(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], N-(1,1-dimethyl-3-  
 oxobutyl)-2-propenamide, 1-dodecanethiol, Macromonomer AN 6,  
 .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-  
 ethanediyl) and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 112-55-0

CMF C12 H26 S

HS-(CH<sub>2</sub>)<sub>11</sub>-Me

CM 2

CRN 211989-43-4

CMF (C<sub>9</sub> H<sub>15</sub> N O<sub>2</sub> . C<sub>8</sub> H<sub>14</sub> O<sub>2</sub> . C<sub>3</sub> H<sub>4</sub> O<sub>2</sub> . (C<sub>2</sub> H<sub>6</sub> O Si)<sub>n</sub> C<sub>12</sub> H<sub>26</sub> O<sub>3</sub> Si<sub>2</sub> .  
 (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>4</sub> H<sub>6</sub> O<sub>2</sub> . Unspecified)x

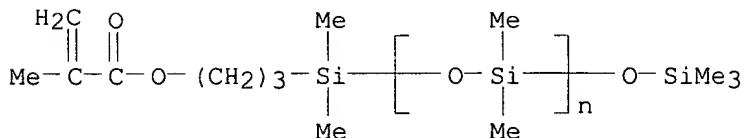
CCI PMS

CM 3

CRN 123109-42-2

CMF (C<sub>2</sub> H<sub>6</sub> O Si)<sub>n</sub> C<sub>12</sub> H<sub>26</sub> O<sub>3</sub> Si<sub>2</sub>

CCI PMS



CM 4

CRN 122525-05-7

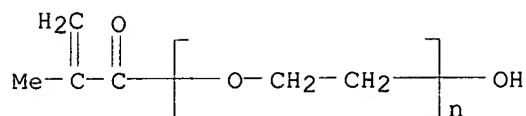
CMF Unspecified

CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

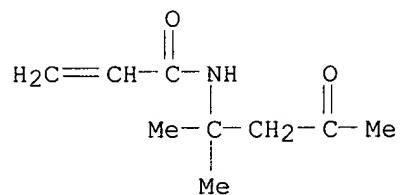
CM 5

CRN 25736-86-1  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>  
 CCI PMS



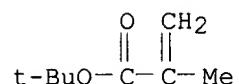
CM 6

CRN 2873-97-4  
 CMF C<sub>9</sub> H<sub>15</sub> N O<sub>2</sub>



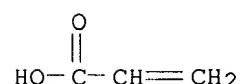
CM 7

CRN 585-07-9  
 CMF C<sub>8</sub> H<sub>14</sub> O<sub>2</sub>



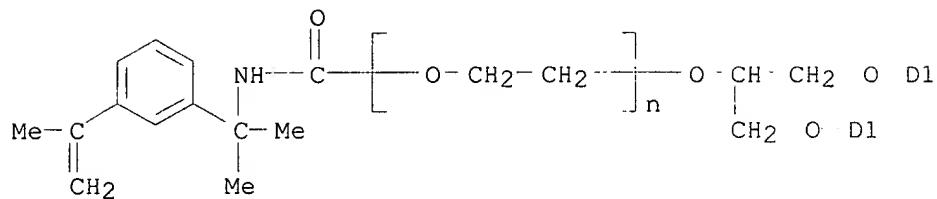
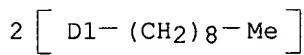
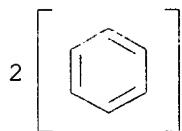
CM 8

CRN 79-10-7  
 CMF C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>

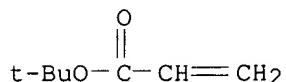


L24 ANSWER 13 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1998:41817 CAPLUS  
 DN 128:142041  
 TI Aircraft deicing/anti-icing fluids thickened by associative polymers  
 IN Carder, Charles Hobert; Garska, Daniel Christopher; Jenkins, Richard  
 Duane; McGuiness, Mark Joseph  
 PA Union Carbide Chemicals + Plastics Technology Corporation, USA  
 SO U.S., 31 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 1

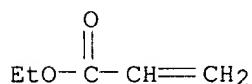
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5708068	A	19980113	US 1995-586970	19950116
	EP 860490	A1	19980826	EP 1997-102888	19970221
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			CA 2198296	AA 1997-2198296 19970224
	CA 2198296	AA	19980824	CA 1997-2198296	19970224
	CN 1191882	A	19980902	CN 1997-109986	19970224
	US 5863973	A	19990126	US 1997-939052	19970926
PRAI	US 1995-586970		19950116		
AB	A glycol- and/or glycerin-based universal aircraft fluid, having good resistance to degrdn. of viscosity and other crit. properties caused by exposure to heat and/or shear, is thickened with a latex of a hydrophobe-contg., polymeric thickener neutralized with a base, preferably an alkali metal hydroxide, and preferably in combination with a weak base, such as a salt of a weak acid, and a surfactant. Thus, an associative polymer thickener was prep'd. by polymn. (50:40:10 wt. ratio) of Et acrylate, methacrylic acid, and the macromer R <sub>1</sub> CH <sub>2</sub> CH <sub>2</sub> (OC <sub>2</sub> H <sub>4</sub> ) <sub>n</sub> OH (R <sub>1</sub> = nonylphenoxy) adduct with m-TMI.				
IT	<b>202054-28-2P</b> RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses) (thickeners; aircraft deicing/anti-icing fluids thickened by associative polymers and cosurfactant and/or solvent)				
RN	202054-28-2 CAPLUS				
CN	2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, ethyl 2-propenoate and .alpha.-{[[1-methyl-1-[3-(1-methylethenyl)phenyl]ethyl]amino]carbonyl}-.omega.-[2-(nonylphenoxy)-1-[(nonylphenoxy)methyl]ethoxy]poly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)				
CM	1				
CRN	156647-45-9				
CMF	(C <sub>2</sub> H <sub>4</sub> O) <sub>n</sub> C <sub>4</sub> 6 H <sub>6</sub> 7 N O <sub>4</sub>				
CCI	IDS, PMS				
CDES	8:ID				



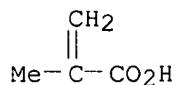
CM 2

CRN 1663-39-4  
CMF C7 H12 O2

CM 3

CRN 140-88-5  
CMF C5 H8 O2

CM 4

CRN 79-41-4  
CMF C4 H6 O2

WILLIS 09/382708

Page 53

L24 ANSWER 14 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1997:759853 CAPLUS  
 DN 128:49412  
 TI Antisoiling water- and oil-repellent compositions soluble in lower alcohols providing good handle on fibers without malodor during fabric finishing  
 IN Fukushi, Noriyuki; Obayashi, Toyohisa; Amagai, Naoyuki  
 PA Nippon Oil and Fats Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 13 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09302334	A2	19971125	JP 1996-114877	19960509

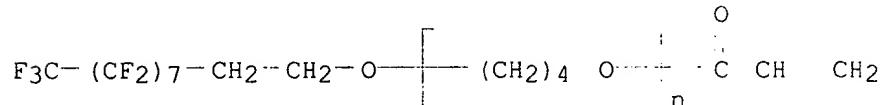
AB The title compns. comprise (A) block copolymers of CH<sub>2</sub>:CR<sub>1</sub>CO<sub>2</sub>(R<sub>2</sub>O)<sub>n</sub>Rf polymer segment (Rf = fluoroalkyl; R<sub>1</sub> = H, me; R<sub>2</sub> = alkylene; n = a pos. no.) and polymer segment of .gtoreq.1 of alkyl (meth)acrylates and OH-contg. (meth)acrylates and (B) a mono- or dihydroxy lower alc. A copolymer used in isopropanol comprised 30% CH<sub>2</sub>:CHCO<sub>2</sub>(C<sub>2</sub>H<sub>4</sub>O)<sub>3</sub>C<sub>2</sub>H<sub>4</sub>C<sub>8</sub>F<sub>17</sub> polymer segment and 70% Bu methacrylate polymer segment.

IT 200068-08-2P 200068-13-9P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (antisoiling water- and oil-repellent compns. sol. in lower alcs. providing good handle on fibers without malodor during fabric finishing)

RN 200068-08-2 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with  
 .alpha.-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-.omega.-[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], octadecyl 2-propenoate and  
 .alpha.-[(1-oxo-2-propenyl)-.omega.-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]poly(oxy-1,4-butanediyl), block (9CI) (CA INDEX NAME)

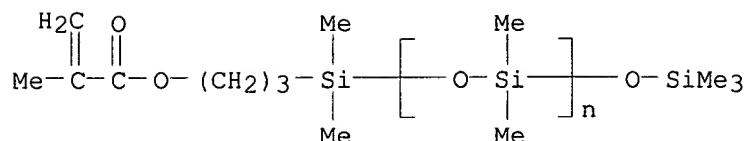
CM 1

CRN 200068-07-1  
 CMF (C<sub>4</sub> H<sub>8</sub> O)<sub>n</sub> C<sub>13</sub> H<sub>7</sub> F<sub>17</sub> O<sub>2</sub>  
 CCI PMS

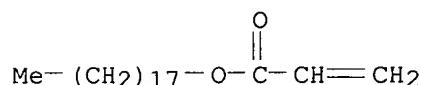


CM 2

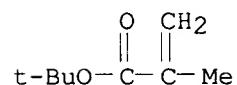
CRN 123109-42-2  
 CMF (C<sub>2</sub> H<sub>6</sub> O Si)<sub>n</sub> C<sub>12</sub> H<sub>26</sub> O<sub>3</sub> Si<sub>2</sub>  
 CCI PMS



CM 3

CRN 4813-57-4  
CMF C21 H40 O2

CM 4

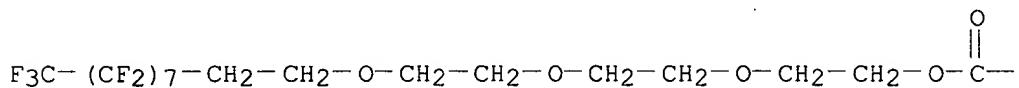
CRN 585-07-9  
CMF C8 H14 O2

RN 200068-13-9 CAPLUS  
CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with  
.alpha.-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-.omega.-  
[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], 2-[2-[2-  
[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]ethoxy]eth-  
oxy]ethyl 2-propenoate and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-  
hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

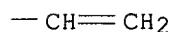
CM 1

CRN 200068-09-3  
CMF C19 H19 F17 O5

PAGE 1-A

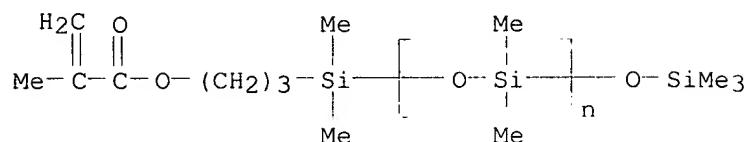


PAGE 1-B



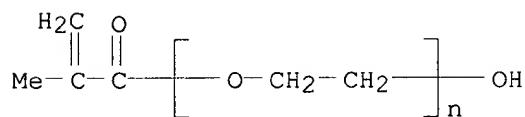
CM 2

CRN 123109-42-2  
 CMF (C<sub>2</sub> H<sub>6</sub> O Si)<sub>n</sub> C<sub>12</sub> H<sub>26</sub> O<sub>3</sub> Si<sub>2</sub>  
 CCI PMS



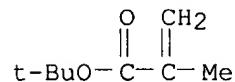
CM 3

CRN 25736-86-1  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>  
 CCI PMS



CM 4

CRN 585-07-9  
 CMF C<sub>8</sub> H<sub>14</sub> O<sub>2</sub>



L24 ANSWER 15 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1997:701479 CAPLUS  
 DN 127:360082  
 TI Glycol-based aircraft anti-icing fluids thickened by associative polymers containing hydrophobe-bearing macromonomers  
 IN Jenkins, Richard Duane; Bassett, David Robinson; Lightfoot, Richard Hall; Boluk, Mehmet Yaman  
 PA Union Carbide Chemicals & Plastics Technology Corp., USA  
 SO U.S., 27 pp. Cont.-in-part of U.S. 5,461,100.  
 CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5681882	A	19971028	US 1993-65237	19930520
	US 5461100	A	19951024	US 1992-887643	19920529

PRAI US 1992-887643 19920529

AB An anti-icing/deicing fluid suitable for ground treatment of aircraft comprises, in admixt., a glycol, water, and a hydrophobe-bearing, alkali-swellable, macromonomer-contg. polymer as a thickener in an amt. of

less than about 5 wt.%. Thickening occurs predominantly by assocn. among hydrophobe groups and may be enhanced by addn. of a surfactant or other materials which act as co-thickeners. Use of this thickened fluid does not adversely affect airfoil lift characteristics during takeoff, because the fluid exhibits shear thinning and readily flows off the aircraft surfaces when exposed to wind shear during the aircraft's takeoff run. Thus, an alkali-sol. thickener having Brookfield viscosity (at pH 9.0)

270

cps at 0.25%, 11,400 cps at 0.5%, and 103,600 cps at 0.75%, and .DELTA.H for viscosity of 0.5% 50/50 ethylene glycol/water soln. -3.3 KJ/mol, was prep'd. from Et acrylate 55, methacrylic acid 40, and a macromonomer (m-TMI-terminated polyethylene glycol nonylphenol ether) 5 wt.%.

IT 198485-39-1P

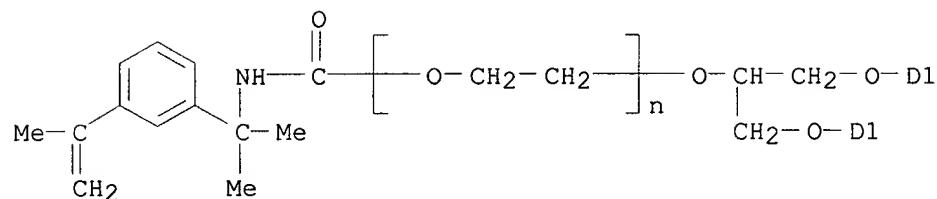
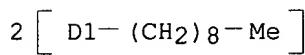
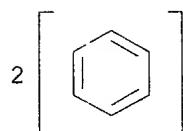
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (thickener; glycol-based aircraft anti-icing fluids thickened by associative polymers contg. hydrophobe-bearing macromonomers)

RN 198485-39-1 CAPLUS

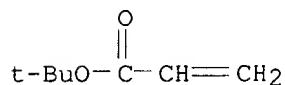
CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, ethyl 2-propenoate, .alpha.-[[[1-methyl-1-[3-(1-methylethenyl)phenyl]ethyl]amino]carbonyl]-.omega.-[2-(nonylphenoxy)-1-(nonylphenoxy)methyl]ethoxy]poly(oxy-1,2-ethanediyl) and methyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

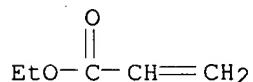
CRN 156647-45-9  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>4</sub>6 H<sub>6</sub>7 N O<sub>4</sub>  
 CCI IDS, PMS  
 CDES 8:ID



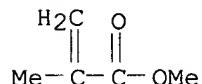
CM 2

CRN 1663-39-4  
CMF C7 H12 O2

CM 3

CRN 140-88-5  
CMF C5 H8 O2

CM 4

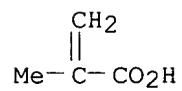
CRN 80-62-6  
CMF C5 H8 O2

WILLIS 09/382708

Page 59

CM 5

CRN 79-41-4  
CMF C4 H6 O2



L24 ANSWER 16 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1997:501652 CAPLUS  
 DN 127:207034  
 TI Coating films for polypropylene bumpers  
 IN Kitamura, Toshiya; Suzuki, Toshimitsu; Sada, Toshihiko; Hara, Isamu;  
 Umeki, Satoru; Yamaguchi, Masahiro  
 PA Nippon Oil and Fats Co., Ltd., Japan; Nissan Motor Co., Ltd.  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09194771	A2	19970729	JP 1996-8070	19960122

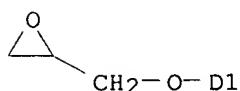
AB Title films are applied on title bumpers having a flexural modulus (FM) of 3,900-6,000 kg/cm<sup>2</sup> and comprise primers and topcoats having an elongation (EN) of 30-100% and a tensile strength (TS) of 50-200 kg/cm<sup>2</sup>. A polypropylene bumper with FM 5,100 kg/cm<sup>2</sup> was primed, coated with a silver base compn., then with a clear compn. (giving films with EN 50% and TS 90 kg/cm<sup>2</sup>) contg. U-Van 22R and acrylic acid-tert-Bu methacrylate-cyclohexyl methacrylate-2-ethylhexyl methacrylate-HMDI-2-hydroxyethyl methacrylate-1,5-pentanediol-styrene copolymer, and baked at 140.degree. for 20 min to form a bumper showing good -30.degree. flexural strength.  
 IT 194666-55-2P 194666-56-3P  
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (topcoats with specific properties on polypropylene bumpers for low-temp. flexural strength)  
 RN 194666-55-2 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with dihydro-2,5-furandione, [(1,1-dimethylethyl)phenoxy]methyl]oxirane, dodecyl 2-methyl-2-propenoate, ethenylbenzene, 2-hydroxyethyl 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 26447-45-0  
 CMF C13 H18 O2  
 CCI IDS  
 CDES 8:ID

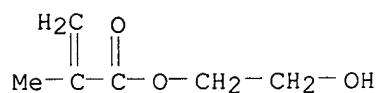


D1-Bu-t



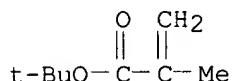
CM 2

CRN 868-77-9  
 CMF C<sub>6</sub> H<sub>10</sub> O<sub>3</sub>



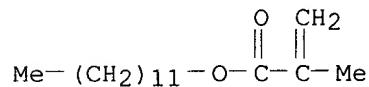
CM 3

CRN 585-07-9  
 CMF C<sub>8</sub> H<sub>14</sub> O<sub>2</sub>



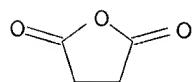
CM 4

CRN 142-90-5  
 CMF C<sub>16</sub> H<sub>30</sub> O<sub>2</sub>



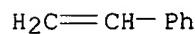
CM 5

CRN 108-30-5  
 CMF C<sub>4</sub> H<sub>4</sub> O<sub>3</sub>

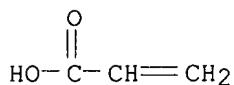


CM 6

CRN 100-42-5  
 CMF C<sub>8</sub> H<sub>8</sub>

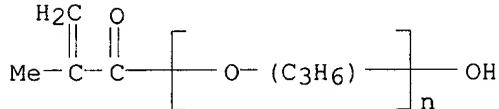


CM 7

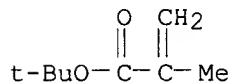
CRN 79-10-7  
CMF C3 H4 O2

RN 194666-56-3 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with dodecyl  
 2-methyl-2-propenoate, ethenylbenzene,  
 $\alpha$ -(2-methyl-1-oxo-2-propenyl)-  
 $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)], 2-methylpropyl  
 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

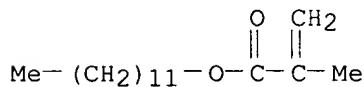
CM 1

CRN 39420-45-6  
CMF (C<sub>3</sub> H<sub>6</sub> O)<sub>n</sub> C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>  
CCI IDS, PMS  
CDES 8:ID

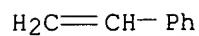
CM 2

CRN 585-07-9  
CMF C<sub>8</sub> H<sub>14</sub> O<sub>2</sub>

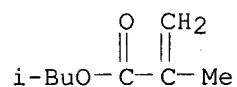
CM 3

CRN 142-90-5  
CMF C<sub>16</sub> H<sub>30</sub> O<sub>2</sub>

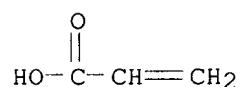
CM 4

CRN 100-42-5  
CMF C8 H8

CM 5

CRN 97-86-9  
CMF C8 H14 O2

CM 6

CRN 79-10-7  
CMF C3 H4 O2

L24 ANSWER 17 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1997:429433 CAPLUS  
 DN 127:51559  
 TI Thermosetting or photocurable resin compositions with good light shielding, dispersibility, and water or alkali developability  
 IN Hirayama, Takayuki; Sato, Haruyoshi; Otsuki, Hiroshi; Ando, Masayuki  
 PA Nippon Oil Co., Ltd., Japan; Dainippon Printing Co., Ltd.  
 SO Jpn. Kokai Tokkyo Koho, 15 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09124954	A2	19970513	JP 1995-287592	19951106
US 5821277	A	19981013	US 1996-742499	19961101

PRAI JP 1995-287592 19951106

AB The title compns. useful in light shielding films for color filters for liq. crystal displays contain carbon materials obtained by a carbon-contg.

material with polymers having .gtoreq.1 reactive groups chosen from aziridine, oxazoline, N-hydroxyalkylamide, epoxy, thioepoxy, isocyanato, hydroxy, amino, vinyl and (meth)acrylic groups and also alkoxy carbonyl group R1R2R3COCO group (R1-3 H, C1-6 alkyl, C5-8 cycloalkyl, C6-16 aryl, at least two of R1-3 being org. groups) and thermosetting resin or photocurable compds. Carbon black was treated with an iso-Bu acrylate-Bu acrylate-Me methacrylate-tert-Bu acrylate-glycidyl methacrylate copolymer by kneading in iso-Pr alc., washed with diethylene glycol di-Me ether, stirred with 3N HCl at 80.degree. for 1 h, concd. in vacuo at 60.degree., and used in making black matrix together with carboxy and hydroxy group-contg. acrylic resin, Aron S-4030, M-66B, and Et Cellosolve acetate.

IT 191015-08-4P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (thermosetting or photocurable resin compns. with good light shielding,

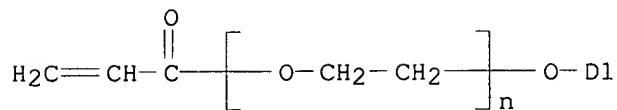
dispersibility, and water or alkali developability)

RN 191015-08-4 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, 4,5-dihydro-2-(1-methylethenyl)oxazole, 1,1-dimethylethyl 2-propenoate, ethenylbenzene, 2-methylpropyl 2-methyl-2-propenoate and .alpha.- (1-oxo-2-propenyl)-.omega.- (nonylphenoxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

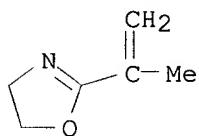
CRN 50974-47-5  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>18</sub> H<sub>26</sub> O<sub>2</sub>  
 CCI IDS, PMS  
 CDES 8:ID



D1—(CH<sub>2</sub>)<sub>8</sub>—Me

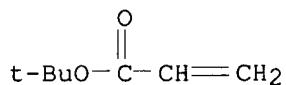
CM 2

CRN 10471-78-0  
CMF C<sub>6</sub> H<sub>9</sub> N O



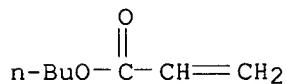
CM 3

CRN 1663-39-4  
CMF C<sub>7</sub> H<sub>12</sub> O<sub>2</sub>



CM 4

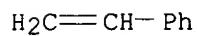
CRN 141-32-2  
CMF C<sub>7</sub> H<sub>12</sub> O<sub>2</sub>



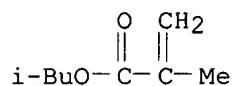
CM 5

CRN 100-42-5

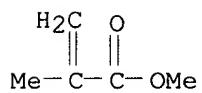
CMF C8 H8



CM 6

CRN 97-86-9  
CMF C8 H14 O2

CM 7

CRN 80-62-6  
CMF C5 H8 O2

L24 ANSWER 18 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1997:402418 CAPLUS  
 DN 127:34646  
 TI Hair cosmetics containing cationic (meth)acrylic resins  
 IN Narasaki, Kanji; Kawaguchi, Shigeoki; Ouchi, Shinsuke  
 PA Mitsubishi Chemical Industries Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

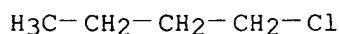
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09100315	A2	19970415	JP 1995-259999	19951006

AB Hair cosmetics with good conditioning effect contain a cationic resin prep'd. from (1) 40-80 wt.% of CH<sub>2</sub>:C(R1)COAR2NR3R4 (R1 = H, Me; R2 = C<sub>1</sub>-4 alkylene; R3, R4 = C<sub>1</sub>-4 alkyl; A = O, NH), 10-45 wt.% of CH<sub>2</sub>:C(R5)CO2R6 (R5 = H, Me; R6 = C<sub>1</sub>-10 alkyl), 5-40 wt.% of CH<sub>2</sub>:C(R7)CO2R8 (R7 = H, Me; R8 = C<sub>12</sub>-24 alkyl or alkenyl), 5-30 wt.% of CH<sub>2</sub>:C(R9)CO(D)mOR10 (R9 = H, Me; D = C<sub>2</sub>-4 oxyalkylene; m = 3-50; R10 = H, C<sub>1</sub>-4 alkyl, phenyl), 0-25 wt.% of other monomers, and cationizing agent XB (X = Br, Cl, I, C<sub>1</sub>-4 alkyl sulfate residue; B = C<sub>1</sub>-12 alkyl, benzyl, residue of C<sub>1</sub>-4 alkyl ester of C<sub>1</sub>-3 aliph. carboxylic acid). The cationic resins have wt.-av. mol. wt. 5,000-500,000. Hair sprays and hair mousses contg. such polymers were formulated.

IT 189947-38-4P  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)  
 (cationic (meth)acrylic resins for hair cosmetics)

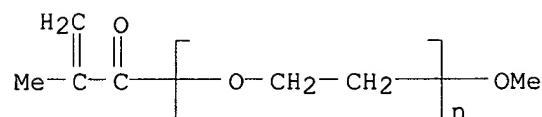
RN 189947-38-4 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, dodecyl 2-methyl-2-propenoate, ethyl 2-propenoate and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl), compd. with 1-chlorobutane (9CI) (CA INDEX NAME)

CM 1  
 CRN 109-69-3  
 CMF C4 H9 Cl

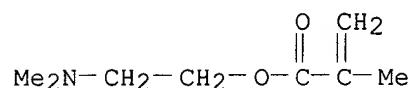


CM 2  
 CRN 189947-37-3  
 CMF (C<sub>16</sub> H<sub>30</sub> O<sub>2</sub> . C<sub>8</sub> H<sub>15</sub> N O<sub>2</sub> . C<sub>8</sub> H<sub>14</sub> O<sub>2</sub> . C<sub>5</sub> H<sub>8</sub> O<sub>2</sub> . (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>5</sub> H<sub>8</sub> O<sub>2</sub>)<sub>x</sub>  
 CCI PMS

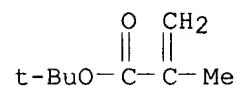
CM 3  
 CRN 26915-72-0  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>5</sub> H<sub>8</sub> O<sub>2</sub>  
 CCI PMS



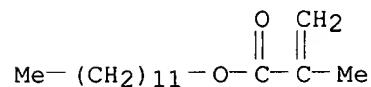
CM 4

CRN 2867-47-2  
CMF C8 H15 N O2

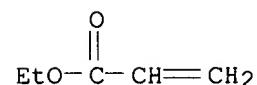
CM 5

CRN 585-07-9  
CMF C8 H14 O2

CM 6

CRN 142-90-5  
CMF C16 H30 O2

CM 7

CRN 140-88-5  
CMF C5 H8 O2

L24 ANSWER 19 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1997:321043 CAPLUS  
 DN 127:19623

TI Acrylic epoxy resin powder coatings having good blocking resistance and yellowing resistance while baking

IN Ogoshi, Toshio; Kato, Yoshiaki; Kawamoto, Torimoto; Numa, Nobushige; Adachi, Naohito

PA Kansai Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09078010	A2	19970325	JP 1995-232407	19950911

AB The coatings contain (A) copolymers showing Tg 40-100.degree. and no.-av. mol. wt. 1000-15,000 obtained by radically polymg. unsatd. monomers with epoxy groups 25-50, styrenes 5-45, isobornyl acrylate (I) 10-50, and other

radically polymerizable unsatd. monomers 0-60, followed by removing solvents and (B) crosslinking agents. Thus, styrene 15, I 37, Bu methacrylate 3, i-Bu methacrylate 9, glycidyl methacrylate 26, and methylglycidyl methacrylate 10 parts was copolymd. at 110.degree. in PhMe in the presence of 2,2'-azobis(2-methylbutyronitrile) and vacuum-distd.

to

give a copolymer, 100 parts of which was dry blended with 26 parts dodecanedioic acid, kneaded, cooled, crushed, and filtered to give a powder coating.

IT 189143-26-8P 189143-28-0P

RL: PNU (Preparation, unclassified); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(isobornyl acrylate-contg. epoxy resin powder coatings having good blocking resistance and yellowing resistance while baking)

RN 189143-26-8 CAPLUS

CN Dodecanedioic acid, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, (methyloxiranyl)methyl 2-methyl-2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

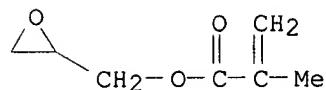
CM 1

CRN 117247-26-4

CMF C8 H12 O3

CCI IDS

CDES 8:ID,RING

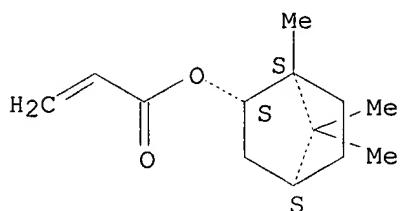


D1-Me

CM 2

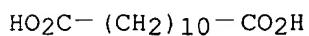
CRN 5888-33-5  
 CMF C13 H20 O2  
 CDES 2:EXO

Relative stereochemistry.



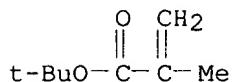
CM 3

CRN 693-23-2  
 CMF C12 H22 O4



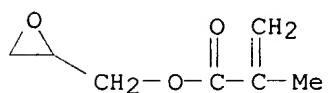
CM 4

CRN 585-07-9  
 CMF C8 H14 O2



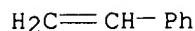
CM 5

CRN 106-91-2  
 CMF C7 H10 O3



CM 6

CRN 100-42-5  
 CMF C8 H8



RN 189143-28-0 CAPLUS

CN Dodecanedioic acid, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, (methyloxiranyl)methyl 2-methyl-2-propenoate, 2-methylpropyl 2-methyl-2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

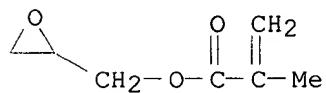
CM 1

CRN 117247-26-4

CMF C8 H12 O3

CCI IDS

CDES 8:ID,RING



D1-Me

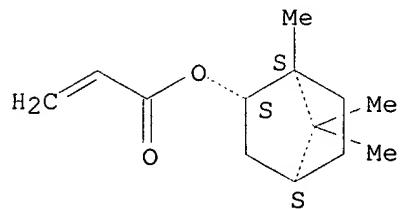
CM 2

CRN 5888-33-5

CMF C13 H20 O2

CDES 2:EXO

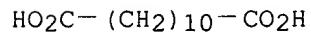
Relative stereochemistry.



CM 3

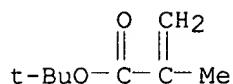
CRN 693-23-2

CMF C12 H22 O4



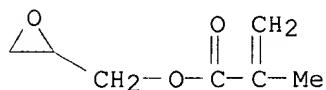
CM 4

CRN 585-07-9  
CMF C8 H14 O2



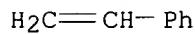
CM 5

CRN 106-91-2  
CMF C7 H10 O3



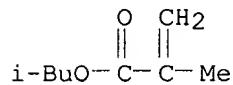
CM 6

CRN 100-42-5  
CMF C8 H8



CM 7

CRN 97-86-9  
CMF C8 H14 O2



L24 ANSWER 20 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1997:317593 CAPLUS

DN 126:294679

TI Thermosetting resin compositions for coatings with excellent storability, low-temperature curability, acid resistance and scratch resistance

IN Kido, Koichiro; Hotsuta, Kazuhiko; Kato, Takeshi; Iwamoto, Akio; Kimura, Isao; Kodama, Shunichi; Myazaki, Nobuyuki; Sasao, Yasuyuki

PA Mitsubishi Rayon Co, Japan; Asahi Glass Co Ltd

SO Jpn. Kokai Tokkyo Koho, 16 pp.  
 CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE /
PI	JP 09059557	A2	19970304	JP 1995-230675	19950817
AB	The title compns. contain (A) .alpha.,.beta.-dicarboxylic acid anhydride monoester (250-3000 g/equiv.)-(meth)acrylic copolymers, (B) epoxy and hydroxy group-contg. (meth)acrylic copolymers (epoxy equiv. 200-700 g/equiv., OH equiv. 400-3000 g/equiv.), and (C) epoxy and hydroxy group-contg. fluoroolefin copolymers of epoxy equiv. 300-2000 g/equiv.				

and

hydroxy equiv. 280-2000 g/equiv.. A component A was prep'd. from styrene 20, cyclohexyl methacrylate 20, lauryl methacrylate 20, tridecyl methacrylate 4, 2-hydroxyethyl methacrylate 20, monobutyl fumarate 6, and methacrylic acid 10 parts; a component B from styrene 20, 2-ethylhexyl methacrylate 15, 4-hydroxybutyl acrylate 20, and glycidyl methacrylate 45 parts; and a component C from chlorotrifluoroethylene 50, cyclohexyl vinyl

ether 10, hydroxybutyl vinyl ether 20, and glycidyl vinyl ether 20 parts and used in 64:24:12 ratio for baked coating (140.degree., 30 min in wet-on-wet).

IT 189043-66-1P 189044-03-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (thermosetting resin compns. for coatings with excellent storability, low-temp. curability, acid resistance and scratch resistance)

RN 189043-66-1 CAPLUS

CN Butanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with chlorotrifluoroethene, cyclohexyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, (ethenyl)butanol, (ethenyl)oxy)cyclohexane, [(ethenyl)oxy)methyl]oxirane, 2-ethylhexyl 2-methyl-2-propenoate, 4-hydroxybutyl 2-propenoate, (Z)-methyl hydrogen 2-butenedioate, 2-methyl-2-propenoic acid and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

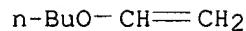
CM 1

CRN 42978-84-7

CMF C6 H12 O2

CCI IDS

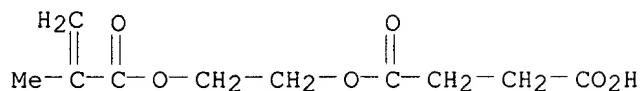
CDES \*



D1—OH

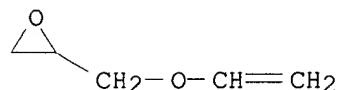
CM 2

CRN 20882-04-6  
CMF C<sub>10</sub> H<sub>14</sub> O<sub>6</sub>



CM 3

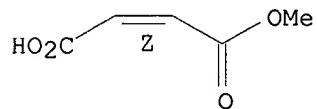
CRN 3678-15-7  
CMF C<sub>5</sub> H<sub>8</sub> O<sub>2</sub>



CM 4

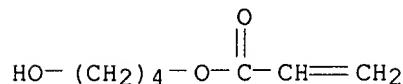
CRN 3052-50-4  
CMF C<sub>5</sub> H<sub>6</sub> O<sub>4</sub>  
CDES 2:Z

Double bond geometry as shown.



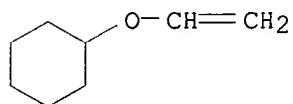
CM 5

CRN 2478-10-6  
CMF C<sub>7</sub> H<sub>12</sub> O<sub>3</sub>



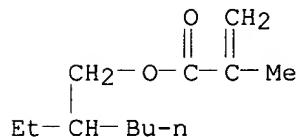
CM 6

CRN 2182-55-0  
 CMF C8 H14 O



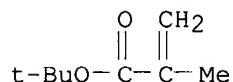
CM 7

CRN 688-84-6  
 CMF C12 H22 O2



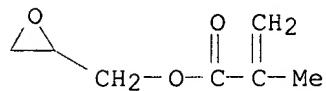
CM 8

CRN 585-07-9  
 CMF C8 H14 O2



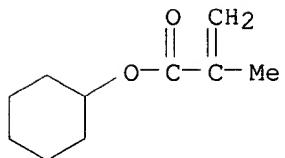
CM 9

CRN 106-91-2  
 CMF C7 H10 O3

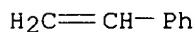


CM 10

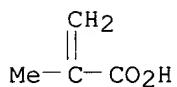
CRN 101-43-9  
 CMF C10 H16 O2



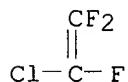
CM 11

CRN 100-42-5  
CMF C8 H8

CM 12

CRN 79-41-4  
CMF C4 H6 O2

CM 13

CRN 79-38-9  
CMF C2 Cl F3

RN 189044-03-9 CAPLUS  
 CN Butanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with cyclohexyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, dodecyl 2-methyl-2-propenoate, ethenylbenzene, (ethenyloxy)butanol, ethoxyethene, 2-ethylhexyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate, 2,5-furandione, 4-hydroxybutyl 2-propenoate, 2-methyl-2-propenoic acid, oxiranylmethyl 2-methyl-2-propenoate, 2-(2-propenyl)ethanol, [(2-propenyl)oxy]methyl]oxirane and tetrafluoroethene (9CI) (CA INDEX NAME)

CM 1

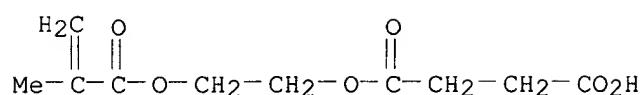
CRN 42978-84-7  
CMF C6 H12 O2  
CCI IDS  
CDES \*

n-BuO—CH=CH<sub>2</sub>

D1—OH

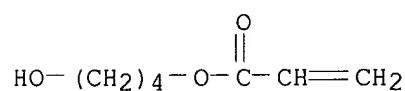
CM 2

CRN 20882-04-6  
CMF C<sub>10</sub> H<sub>14</sub> O<sub>6</sub>



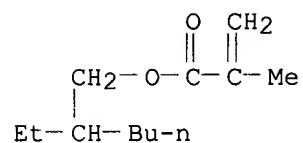
CM 3

CRN 2478-10-6  
CMF C<sub>7</sub> H<sub>12</sub> O<sub>3</sub>



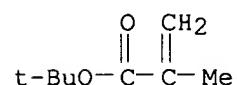
CM 4

CRN 688-84-6  
CMF C<sub>12</sub> H<sub>22</sub> O<sub>2</sub>

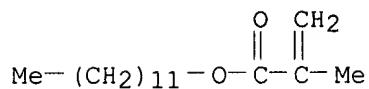


CM 5

CRN 585-07-9  
CMF C<sub>8</sub> H<sub>14</sub> O<sub>2</sub>



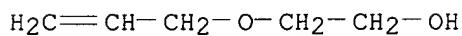
CM 6

CRN 142-90-5  
CMF C16 H30 O2

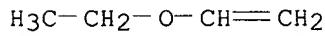
CM 7

CRN 116-14-3  
CMF C2 F4

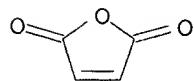
CM 8

CRN 111-45-5  
CMF C5 H10 O2

CM 9

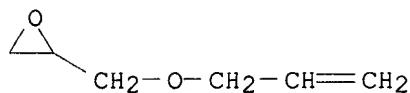
CRN 109-92-2  
CMF C4 H8 O

CM 10

CRN 108-31-6  
CMF C4 H2 O3

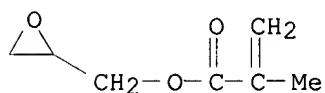
CM 11

CRN 106-92-3  
CMF C6 H10 O2



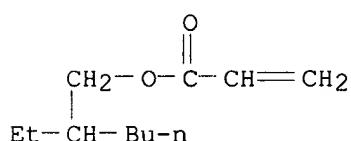
CM 12

CRN 106-91-2  
CMF C7 H10 O3



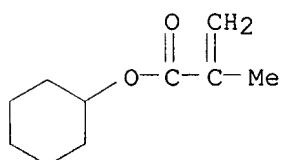
CM 13

CRN 103-11-7  
CMF C11 H20 O2



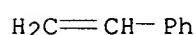
CM 14

CRN 101-43-9  
CMF C10 H16 O2



CM 15

CRN 100-42-5  
CMF C8 H8



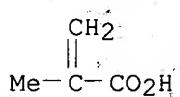
WILLIS

09/382708

Page 80

CM 16

CRN 79-41-4  
CMF C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>



L24 ANSWER 21 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1997:253994 CAPLUS  
 DN 126:239708  
 TI Thermosetting composition suitable for glossy clear topcoats with excellent acid, water, weather, thermal shock, and scratch resistance  
 IN Iwamoto, Akio; Kato, Takeshi; Fujie, Shinobu; Hotta, Kazuhiko; Iwase, Kunio; Takeuchi, Hiroshi  
 PA Mitsubishi Rayon Co., Ltd., Japan; Iwamoto, Akio; Kato, Takeshi; Fujie, Shinobu; Hotta, Kazuhiko; Iwase, Kunio; Takeuchi, Hiroshi  
 SO PCT Int. Appl., 48 pp.  
 CODEN: PIXXD2

DT Patent  
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9706216	A1	19970220	WO 1995-JP1604	19950810
	W: CA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2228628	AA	19970220	CA 1995-2228628	19950810
	EP 844285	A1	19980527	EP 1995-928017	19950810
	R: DE, GB				
	JP 09111153	A2	19970428	JP 1996-211211	19960809
	JP 09131563	A2	19970520	JP 1996-211307	19960809
	US 6037416	A	20000314	US 1998-11062	19980210

PRAI WO 1995-JP1604 19950810

AB A thermosetting covering compn. comprises an acrylic copolymer contg. vinyl monomer units each having an .alpha., .beta.-dicarboxylic acid anhydride group and vinyl monomer units each having a dicarboxylic monoester group, the total content of both the monomer units being 5-40% and the content of the former monomer units being 0.3-5%, and an epoxidized acrylic copolymer. A solvent-based compn. comprised Me methacrylate-tert-Bu methacrylate-2-ethylhexyl acrylate-maleic anhydride copolymer Me ester (monomethyl maleate unit content 23.9%) 100, Me methacrylate-Bu methacrylate-2-ethylhexyl acrylate-2-hydroxyethyl methacrylate-glycidyl methacrylate copolymer 90, Modaflo 0.2, benzyltributylammonium chloride, Tinuvin 900 2.0, and Sanol 440 2.0

parts.

IT 188364-03-6P 188364-04-7P 188364-07-0P  
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (thermosetting acrylic compn. suitable for glossy clear topcoats with excellent acid, water, weather, thermal shock, and scratch resistance)

RN 188364-03-6 CAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate, 2,5-furandione, 2,2'-[1,6-hexanediylbis(oxymethylene)]bis[oxirane], 4-hydroxybutyl 2-propenoate, methyl 2-methyl-2-propenoate and oxiranylmethyl 2-methyl-2-propenoate, methyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1  
 CMF C H4 O

H3C-OH

CM 2

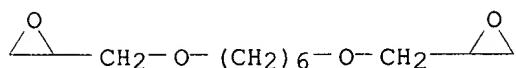
CRN 189176-82-7

CMF (C<sub>12</sub> H<sub>22</sub> O<sub>4</sub> . C<sub>11</sub> H<sub>20</sub> O<sub>2</sub> . C<sub>8</sub> H<sub>14</sub> O<sub>2</sub> . C<sub>8</sub> H<sub>14</sub> O<sub>2</sub> . C<sub>7</sub> H<sub>12</sub> O<sub>3</sub> . C<sub>7</sub>H<sub>10</sub>O<sub>3</sub> . C<sub>5</sub> H<sub>8</sub> O<sub>2</sub> . C<sub>4</sub> H<sub>2</sub> O<sub>3</sub>)<sub>x</sub>

CCI PMS

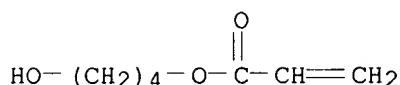
CM 3

CRN 16096-31-4

CMF C<sub>12</sub> H<sub>22</sub> O<sub>4</sub>

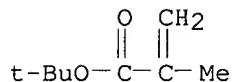
CM 4

CRN 2478-10-6

CMF C<sub>7</sub> H<sub>12</sub> O<sub>3</sub>

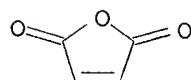
CM 5

CRN 585-07-9

CMF C<sub>8</sub> H<sub>14</sub> O<sub>2</sub>

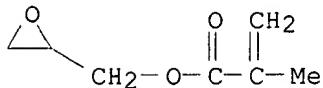
CM 6

CRN 108-31-6

CMF C<sub>4</sub> H<sub>2</sub> O<sub>3</sub>

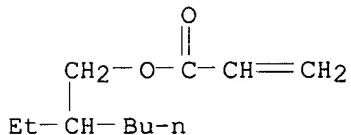
CM 7

CRN 106-91-2  
CMF C7 H10 O3



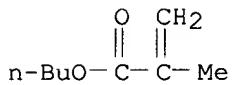
CM 8

CRN 103-11-7  
CMF C11 H20 O2



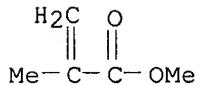
CM 9

CRN 97-88-1  
CMF C8 H14 O2



CM 10

CRN 80-62-6  
CMF C5 H8 O2



RN 188364-04-7 CAPLUS  
 CN 1,3-Benzene dicarboxylic acid, polymer with butyl 2-methyl-2-propenoate,  
 1,1-dimethylethyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate,  
 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, 2,5-furandione,  
 1,6-hexanediol,  
 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate,  
 oxiranylmethyl tert-decanoate and oxiranylmethyl 2-methyl-2-propenoate,  
 methyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O

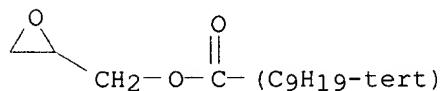
H<sub>3</sub>C-OH

CM 2

CRN 188307-56-4  
CMF (C<sub>13</sub> H<sub>24</sub> O<sub>3</sub> . C<sub>11</sub> H<sub>20</sub> O<sub>2</sub> . C<sub>8</sub> H<sub>14</sub> O<sub>2</sub> . C<sub>8</sub> H<sub>14</sub> O<sub>2</sub> . C<sub>8</sub> H<sub>6</sub> O<sub>4</sub> . C<sub>7</sub> H<sub>10</sub> O<sub>3</sub> . C<sub>6</sub> H<sub>14</sub> O<sub>3</sub> . C<sub>6</sub> H<sub>14</sub> O<sub>2</sub> . C<sub>6</sub> H<sub>10</sub> O<sub>3</sub> . C<sub>5</sub> H<sub>8</sub> O<sub>2</sub> . C<sub>4</sub> H<sub>2</sub> O<sub>3</sub>)x  
CCI PMS

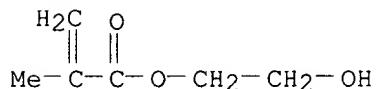
CM 3

CRN 71206-09-2  
CMF C<sub>13</sub> H<sub>24</sub> O<sub>3</sub>  
CCI IDS  
CDES 8:ID, TERT



CM 4

CRN 868-77-9  
CMF C<sub>6</sub> H<sub>10</sub> O<sub>3</sub>



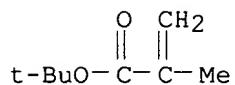
CM 5

CRN 629-11-8  
CMF C<sub>6</sub> H<sub>14</sub> O<sub>2</sub>

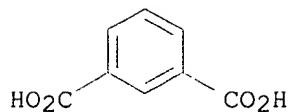
HO-(CH<sub>2</sub>)<sub>6</sub>-OH

CM 6

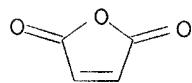
CRN 585-07-9  
CMF C<sub>8</sub> H<sub>14</sub> O<sub>2</sub>



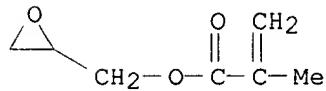
CM 7

CRN 121-91-5  
CMF C8 H6 O4

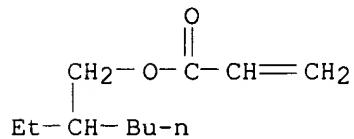
CM 8

CRN 108-31-6  
CMF C4 H2 O3

CM 9

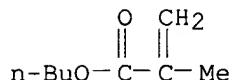
CRN 106-91-2  
CMF C7 H10 O3

CM 10

CRN 103-11-7  
CMF C11 H20 O2

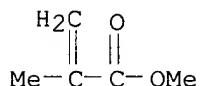
CM 11

CRN 97-88-1  
 CMF C8 H14 O2



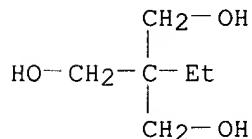
CM 12

CRN 80-62-6  
 CMF C5 H8 O2



CM 13

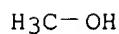
CRN 77-99-6  
 CMF C6 H14 O3



RN 188364-07-0 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate, 2,5-furandione, 2,2'-(1,6-hexanediylbis(oxymethylene))bis[oxirane], 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and oxiranylmethyl 2-methyl-2-propenoate, methyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1  
 CMF C H4 O



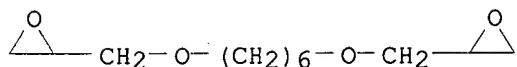
CM 2

CRN 188307-64-4  
 CMF (C12 H22 O4 . C11 H20 O2 . C8 H14 O2 . C8 H14 O2 . C7 H10 O3 . C6

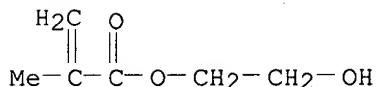
H10 O3 . C5 H8 O2 . C4 H2 O3)x

CCI PMS

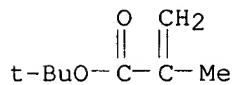
CM 3

CRN 16096-31-4  
CMF C12 H22 O4

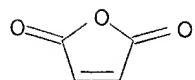
CM 4

CRN 868-77-9  
CMF C6 H10 O3

CM 5

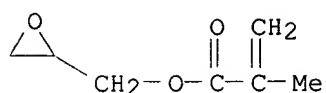
CRN 585-07-9  
CMF C8 H14 O2

CM 6

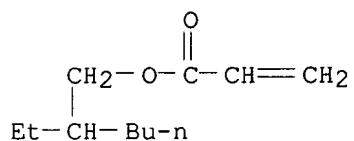
CRN 108-31-6  
CMF C4 H2 O3

CM 7

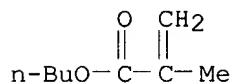
CRN 106-91-2  
CMF C7 H10 O3



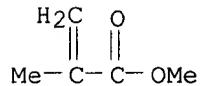
CM 8

CRN 103-11-7  
CMF C11 H20 O2

CM 9

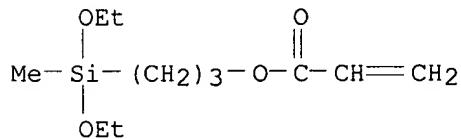
CRN 97-88-1  
CMF C8 H14 O2

CM 10

CRN 80-62-6  
CMF C5 H8 O2

L24 ANSWER 22 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1997:247419 CAPLUS  
 DN 126:226570  
 TI Ethoxysilyl-containing acrylic emulsions with excellent storage stability  
 IN Oohata, Hiroyuki; Saga, Hiroshi  
 PA Nissin Kagaku Kogyo Kk, Japan  
 SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09025385	A2	19970128	JP 1995-176193	19950712
AB Water-resistant coating materials comprise copolymers of av. mol. wt. .gtoreq.50,000 prep'd. by polymn. of C1-18 alkyl (meth)acrylates 50-99, .gamma.- (meth)acryloxypropylmethyldiethoxysilane and/or .gamma.- (meth)acryloxypropyltriethoxysilane 1-20, and comonomers 3-50% in the presence of reactive surfactants. Thus, Bu acrylate 46, Me methacrylate 37, styrene 10, and .gamma.-methacryloxypropyltriethoxysilane 7 parts were polymd. at 60.degree. in H2O in the presence of Aqualon HS 10, Aqualon RN 20, and a peroxide to give a 50.5% solids emulsion (av. mol. wt. 27 .times. 104) showing min. film-forming temp. 19.degree. and forming a good water resistant coating after a 6-mo storage.				
IT 188266-46-8P				
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (ethoxysilyl-contg. acrylic emulsions with excellent storage stability for water-resistant coatings)				
RN 188266-46-8 CAPLUS				
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with butyl 2-propenoate, 3-(diethoxymethylsilyl)propyl 2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, .alpha.-[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethyl]-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and .alpha.-sulfo-.omega.-[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt (9CI) (CA INDEX NAME)				
CM 1				
CRN 146666-71-9				
CMF C11 H22 O4 Si				

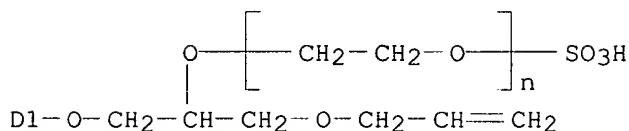


CM 2

CRN 113405-85-9  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>21</sub> H<sub>34</sub> O<sub>6</sub> S . H<sub>3</sub> N  
 CCI IDS, PMS  
 CDES 8:ID



D1 - (CH<sub>2</sub>)<sub>8</sub> - Me



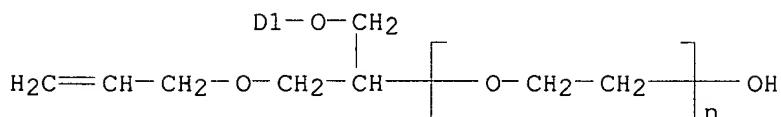
• NH<sub>3</sub>

CM 3

CRN 111144-60-6  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>21</sub> H<sub>34</sub> O<sub>3</sub>  
 CCI IDS, PMS  
 CDES 8:ID

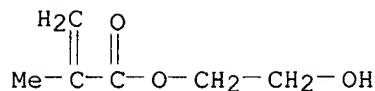


D1 - (CH<sub>2</sub>)<sub>8</sub> - Me

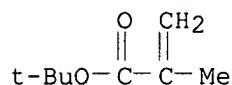


CM 4

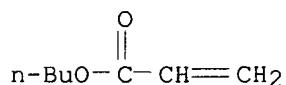
CRN 868-77-9  
 CMF C<sub>6</sub> H<sub>10</sub> O<sub>3</sub>



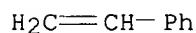
CM 5

CRN 585-07-9  
CMF C8 H14 O2

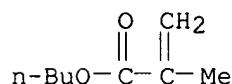
CM 6

CRN 141-32-2  
CMF C7 H12 O2

CM 7

CRN 100-42-5  
CMF C8 H8

CM 8

CRN 97-88-1  
CMF C8 H14 O2

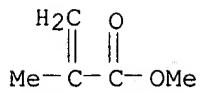
CM 9

CRN 80-62-6  
CMF C5 H8 O2

WILLIS

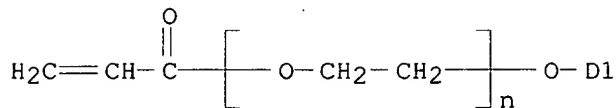
09/382708

Page 92



L24 ANSWER 23 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1997:174973 CAPLUS  
 DN 126:172399  
 TI Manufacture of electrically insulating carbonaceous materials  
 IN Hirayama, Takayuki; Morita, Yoshifumi; Sato, Haruyoshi; Otsuki, Yutaka  
 PA Nippon Oil Company, Limited, Japan  
 SO Eur. Pat. Appl., 10 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

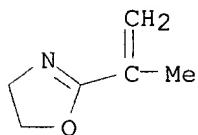
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 753548	A2	19970115	EP 1996-304743	19960627
	EP 753548	A3	19980610		
	R: DE, FR, GB				
	JP 09012920	A2	19970114	JP 1995-162303	19950628
	US 5811475	A	19980922	US 1996-669586	19960624
PRAI	JP 1995-162303	19950628			
AB	The title process consists of mixing a carbon material (e.g., Special Black 4) with a polymer having .gtoreq.1 reactive group selected from aziridine, oxazoline, N-hydroxyalkylamido, epoxy, thioepoxy, isocyanato, hydroxyl, amino, vinyl, (meth)acryl, and/or an alkoxy carbonyl group (e.g., Bu acrylate-tert-Bu acrylate-glycidyl methacrylate-hydroxyethyl acrylate-iso-Bu acrylate-Me methacrylate copolymer, Bu acrylate-tert-Bu acrylate-hydroxyethyl acrylate-iso-Bu methacrylate-iso-Pr oxazoline-Me methacrylate-nonylphenoxy polyethylene glycol acrylate copolymer) in solvents, kneading, and removing the solvents. The carbonaceous materials are useful for elec. insulating inks, films (e.g., of PMMA), etc.				
IT	187146-73-2, Butyl acrylate-tert-butyl acrylate-hydroxyethyl acrylate-isobutyl methacrylate-isopropyl oxazoline-methyl methacrylate-nonylphenoxy polyethylene glycol acrylate copolymer RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); TEM (Technical or engineered material use); PROC (Process); USES (Uses) (manuf. of elec. insulating carbonaceous materials)				
RN	187146-73-2 CAPLUS				
CN	2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, 4,5-dihydro-2-(1-methylethenyl)oxazole, 1,1-dimethylethyl 2-propenoate, 2-hydroxyethyl 2-propenoate, 2-methylpropyl 2-methyl-2-propenoate and .alpha.-(1-oxo-2-propenyl)-.omega.- (nonylphenoxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)				
CM	1				
CRN	50974-47-5				
CMF	(C <sub>2</sub> H <sub>4</sub> O) <sub>n</sub> C <sub>18</sub> H <sub>26</sub> O <sub>2</sub>				
CCI	IDS, PMS				
CDES	8:ID				



D1 - (CH<sub>2</sub>)<sub>8</sub> - Me

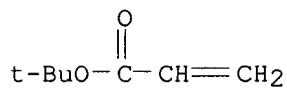
CM 2

CRN 10471-78-0  
CMF C<sub>6</sub> H<sub>9</sub> N O



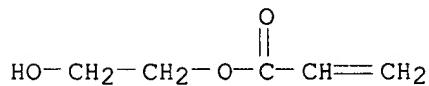
CM 3

CRN 1663-39-4  
CMF C<sub>7</sub> H<sub>12</sub> O<sub>2</sub>



CM 4

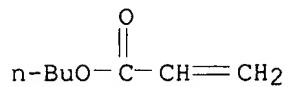
CRN 818-61-1  
CMF C<sub>5</sub> H<sub>8</sub> O<sub>3</sub>



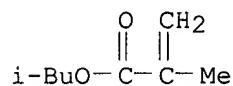
CM 5

CRN 141-32-2

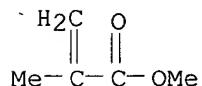
CMF C7 H12 O2



CM 6

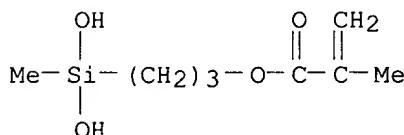
CRN 97-86-9  
CMF C8 H14 O2

CM 7

CRN 80-62-6  
CMF C5 H8 O2

L24 ANSWER 24 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1996:501378 CAPLUS  
 DN 125:171045  
 TI Curable acrylic siloxane coatings with soil and weather resistance  
 IN Oda, Hiroshi; Oosugi, Koji; Tanabe, Hisanori; Obata, Jusaku  
 PA Nippon Paint Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 26 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

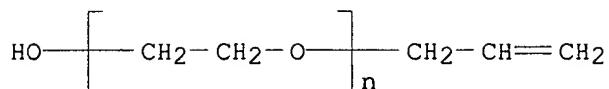
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08120224	A2	19960514	JP 1994-282824	19941021
AB	Title coatings contain crosslinkers and resins prep'd. from Q(R <sub>2</sub> SiO) <sub>b</sub> (RXSiO) <sub>c</sub> (RYSiO) <sub>d</sub> Q [Q = XaR <sub>3</sub> -aSiO; R = C <sub>1-6</sub> alkyl, Ph; X = polyoxyethylene-contg. hydrocarbyl; Y = 3-(meth)acryloxypropyl; a = 0-1; b = 1-20; c = 0-10; d = 1-3, with a + c = 1-10]. A xylene soln. contg. C 3062 (crosslinker) and a graft copolymer from (A) tert-Bu methacrylate, (B) 2-hydroxyethyl methacrylate, and (C) a block copolymer form Nissan Uniox A 450 (polyoxyethylene monoallyl ether) and dimethylsilyl-terminated polydimethylmethyl(3-methacryloxypropyl)siloxane was spread on a glass plate and cured at room temp. over 1 wk to form a surface showing water contact angle 40.degree., good soil resistance over 2 yr at outdoor, and 90% gloss retention after 2,000 h under sunshine weatherometer.				
IT	179992-45-1P 179992-48-4P 179992-50-8P 180467-90-7P 180467-91-8P 180467-92-9P 180467-93-0P 180684-68-8P 180684-70-2P				
	RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (crosslinker-contg. compns. for room-temp.-curable coatings with soil/water/weather resistance)				
RN	179992-45-1 CAPLUS				
CN	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with 3-(dihydroxymethylsilyl)propyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol, diphenylsilanediol, 2-ethylhexyl 2-methyl-2-propenoate and .alpha.-2-propenyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)				
CM	1				
CRN	156787-79-0				
CMF	C8 H16 O4 Si				



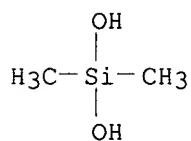
CM 2

CRN 27274-31-3  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>6</sub> O

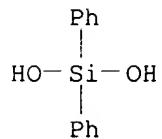
CCI PMS



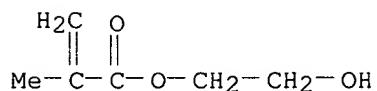
CM 3

CRN 1066-42-8  
CMF C2 H8 O2 Si

CM 4

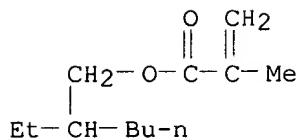
CRN 947-42-2  
CMF C12 H12 O2 Si

CM 5

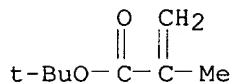
CRN 868-77-9  
CMF C6 H10 O3

CM 6

CRN 688-84-6  
CMF C12 H22 O2

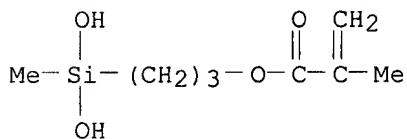


CM 7

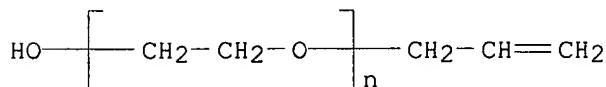
CRN 585-07-9  
CMF C8 H14 O2

RN 179992-48-4 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester,  
 polymer  
 with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol,  
 2-ethylhexyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate  
 and .alpha.-2-propenyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA  
 INDEX NAME)

CM 1

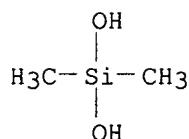
CRN 156787-79-0  
CMF C8 H16 O4 Si

CM 2

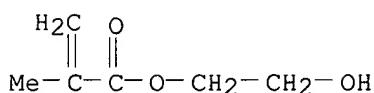
CRN 27274-31-3  
CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>6</sub> O  
CCI PMS

CM 3

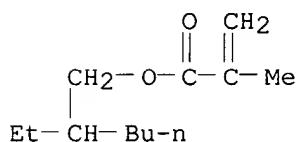
CRN 1066-42-8  
CMF C<sub>2</sub> H<sub>8</sub> O<sub>2</sub> Si



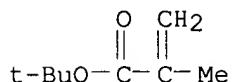
CM 4

CRN 868-77-9  
CMF C6 H10 O3

CM 5

CRN 688-84-6  
CMF C12 H22 O2

CM 6

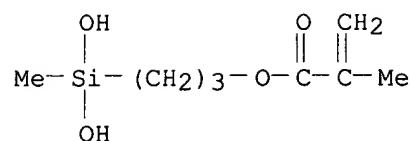
CRN 585-07-9  
CMF C8 H14 O2

RN 179992-50-8 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester,  
 polymer

with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol,  
 (4-ethenylphenyl)trimethoxysilane, 2-ethylhexyl 2-methyl-2-propenoate and  
 .alpha.-2-propenyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI)  
 (CA INDEX NAME)

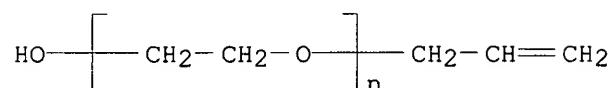
CM 1

CRN 156787-79-0  
CMF C8 H16 O4 Si



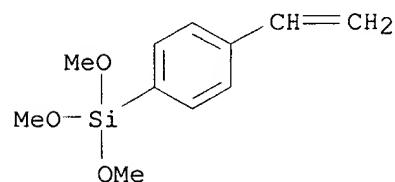
CM 2

CRN 27274-31-3  
CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>6</sub> O  
CCI PMS



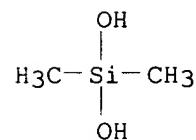
CM 3

CRN 18001-13-3  
CMF C<sub>11</sub> H<sub>16</sub> O<sub>3</sub> Si



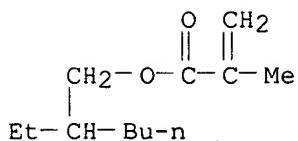
CM 4

CRN 1066-42-8  
CMF C<sub>2</sub> H<sub>8</sub> O<sub>2</sub> Si

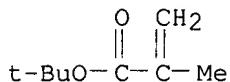


CM 5

CRN 688-84-6  
CMF C<sub>12</sub> H<sub>22</sub> O<sub>2</sub>

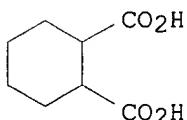


CM 6

CRN 585-07-9  
CMF C8 H14 O2

RN 180467-90-7 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester,  
 polymer  
 with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol,  
 diphenylsilanol, 2-ethylhexyl 2-methyl-2-propenoate, 2-hydroxyethyl  
 2-methyl-2-propenoate and .alpha.-methyl-.omega.-(2-propenyloxy)poly(oxy-  
 1,2-ethanediyl), hydrogen 1,2-cyclohexanedicarboxylate, sodium salt,  
 graft  
 (9CI) (CA INDEX NAME)

CM 1

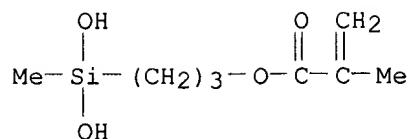
CRN 1687-30-5  
CMF C8 H12 O4

CM 2

CRN 179992-45-1  
 CMF (C12 H22 O2 . C12 H12 O2 Si . C8 H16 O4 Si . C8 H14 O2 . C6 H10 O3 .  
 C2 H8 O2 Si . (C2 H4 O)n C3 H6 O)x  
 CCI PMS  
 CDES 8:PM, GRAFT

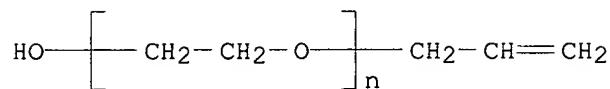
CM 3

CRN 156787-79-0  
CMF C8 H16 O4 Si



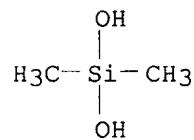
CM 4

CRN 27274-31-3  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>6</sub> O  
 CCI PMS



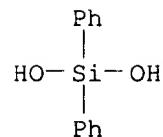
CM 5

CRN 1066-42-8  
 CMF C<sub>2</sub> H<sub>8</sub> O<sub>2</sub> Si



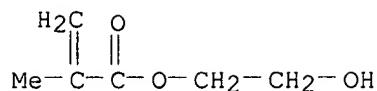
CM 6

CRN 947-42-2  
 CMF C<sub>12</sub> H<sub>12</sub> O<sub>2</sub> Si

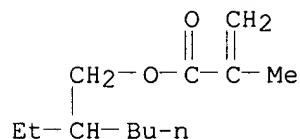


CM 7

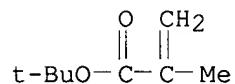
CRN 868-77-9  
 CMF C<sub>6</sub> H<sub>10</sub> O<sub>3</sub>



CM 8

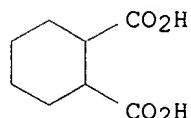
CRN 688-84-6  
CMF C12 H22 O2

CM 9

CRN 585-07-9  
CMF C8 H14 O2

RN 180467-91-8 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester,  
 polymer  
 with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol,  
 2-ethylhexyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate  
 and .alpha.-methyl-.omega.- (2-propenyoxy)poly(oxy-1,2-ethanediyl),  
 hydrogen 1,2-cyclohexanedicarboxylate, potassium salt, graft (9CI) (CA  
 INDEX NAME)

CM 1

CRN 1687-30-5  
CMF C8 H12 O4

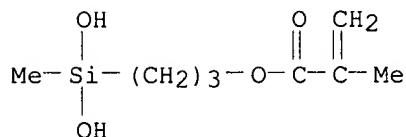
CM 2

CRN 179992-47-3  
CMF (C12 H22 O2 . C8 H16 O4 Si . C8 H14 O2 . C6 H10 O3 . C2 H8 O2 Si .

(C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>6</sub> O)x  
 CCI PMS  
 CDES 8:PM, GRAFT

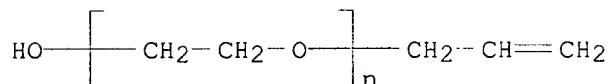
CM 3

CRN 156787-79-0  
 CMF C<sub>8</sub> H<sub>16</sub> O<sub>4</sub> Si



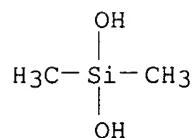
CM 4

CRN 27274-31-3  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>6</sub> O  
 CCI PMS



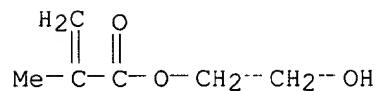
CM 5

CRN 1066-42-8  
 CMF C<sub>2</sub> H<sub>8</sub> O<sub>2</sub> Si



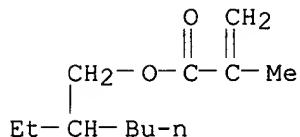
CM 6

CRN 868-77-9  
 CMF C<sub>6</sub> H<sub>10</sub> O<sub>3</sub>



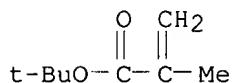
CM 7

CRN 688-84-6  
 CMF C12 H22 O2



CM 8

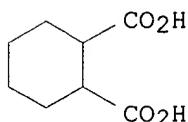
CRN 585-07-9  
 CMF C8 H14 O2



RN 180467-92-9 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester,  
 polymer  
 with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol,  
 2-ethylhexyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate  
 and .alpha.-2-propenyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl), hydrogen  
 1,2-cyclohexanedicarboxylate, lithium salt, graft (9CI) (CA INDEX NAME)

CM 1

CRN 1687-30-5  
 CMF C8 H12 O4

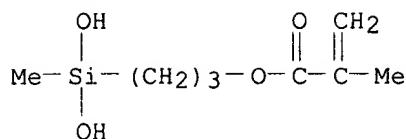


CM 2

CRN 179992-47-3  
 CMF (C12 H22 O2 . C8 H16 O4 Si . C8 H14 O2 . C6 H10 O3 . C2 H8 O2 Si .  
 (C2 H4 O)n C3 H6 O)x  
 CCI PMS  
 CDES 8:PM, GRAFT

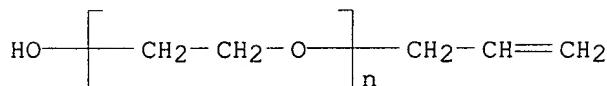
CM 3

CRN 156787-79-0  
 CMF C8 H16 O4 Si



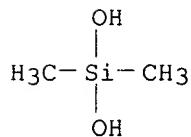
CM 4

CRN 27274-31-3  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>6</sub> O  
 CCI PMS



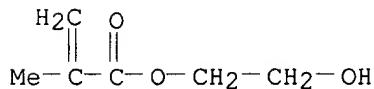
CM 5

CRN 1066-42-8  
 CMF C<sub>2</sub> H<sub>8</sub> O<sub>2</sub> Si



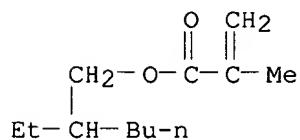
CM 6

CRN 868-77-9  
 CMF C<sub>6</sub> H<sub>10</sub> O<sub>3</sub>



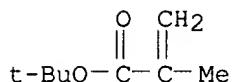
CM 7

CRN 688-84-6  
 CMF C<sub>12</sub> H<sub>22</sub> O<sub>2</sub>



CM 8

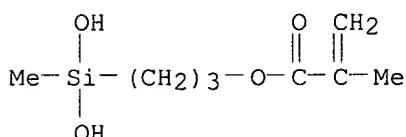
CRN 585-07-9  
 CMF C8 H14 O2



RN 180467-93-0 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester,  
 polymer  
 with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol,  
 diphenylsilanediol, 2-ethylhexyl 2-methyl-2-propenoate,  
 .alpha.-2-propenyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and silicic  
 acid methyl ester, graft (9CI) (CA INDEX NAME)

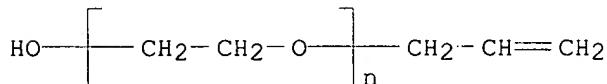
CM 1

CRN 156787-79-0  
 CMF C8 H16 O4 Si



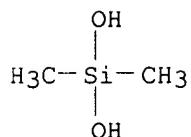
CM 2

CRN 27274-31-3  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>6</sub> O  
 CCI PMS

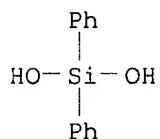


CM 3

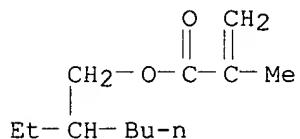
CRN 1066-42-8  
 CMF C<sub>2</sub> H<sub>8</sub> O<sub>2</sub> Si



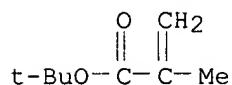
CM 4

CRN 947-42-2  
CMF C12 H12 O2 Si

CM 5

CRN 688-84-6  
CMF C12 H22 O2

CM 6

CRN 585-07-9  
CMF C8 H14 O2

CM 7

CRN 12002-26-5  
CMF C H4 O . x Unspecified  
CDES 8:GD, ESTER

CM 8

CRN 1343-98-2  
CMF Unspecified

CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 9

CRN 67-56-1  
CMF C H4 OH<sub>3</sub>C-OH

RN 180684-68-8 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester,  
 polymer  
 with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol,  
 diphenylsilanediol, 2-ethylhexyl 2-methyl-2-propenoate, 2-hydroxyethyl  
 2-methyl-2-propenoate and .alpha.-2-propenyl-.omega.-hydroxypoly(oxy-1,2-  
 ethanediyl), graft, 1,2-cyclohexanedicarboxylate, compd. with  
 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

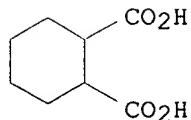
CM 1

CRN 108-01-0  
CMF C4 H11 N OMe<sub>2</sub>N-CH<sub>2</sub>-CH<sub>2</sub>-OH

CM 2

CRN 180684-67-7  
 CMF (C<sub>12</sub> H<sub>22</sub> O<sub>2</sub> . C<sub>12</sub> H<sub>12</sub> O<sub>2</sub> Si . C<sub>8</sub> H<sub>16</sub> O<sub>4</sub> Si . C<sub>8</sub> H<sub>14</sub> O<sub>2</sub> . C<sub>6</sub> H<sub>10</sub> O<sub>3</sub> .  
 C<sub>2</sub> H<sub>8</sub> O<sub>2</sub> Si . (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>6</sub> O)<sub>x</sub> . x C<sub>8</sub> H<sub>12</sub> O<sub>4</sub>  
 CDES 8:GD

CM 3

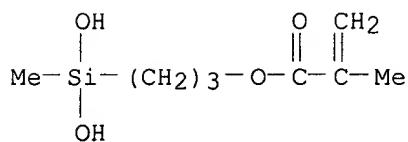
CRN 1687-30-5  
CMF C8 H12 O4

CM 4

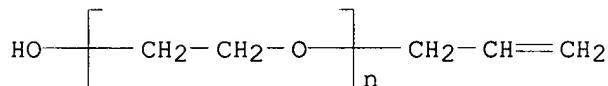
CRN 179992-45-1  
 CMF (C<sub>12</sub> H<sub>22</sub> O<sub>2</sub> . C<sub>12</sub> H<sub>12</sub> O<sub>2</sub> Si . C<sub>8</sub> H<sub>16</sub> O<sub>4</sub> Si . C<sub>8</sub> H<sub>14</sub> O<sub>2</sub> . C<sub>6</sub> H<sub>10</sub>  
 O<sub>3</sub> . C<sub>2</sub> H<sub>8</sub> O<sub>2</sub> Si . (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>6</sub> O)<sub>x</sub>  
 CCI PMS

CDES 8:PM, GRAFT

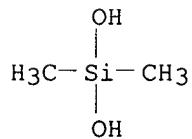
CM 5

CRN 156787-79-0  
CMF C8 H16 O4 Si

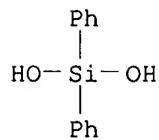
CM 6

CRN 27274-31-3  
CMF (C2 H4 O)n C3 H6 O  
CCI PMS

CM 7

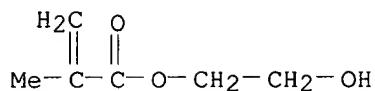
CRN 1066-42-8  
CMF C2 H8 O2 Si

CM 8

CRN 947-42-2  
CMF C12 H12 O2 Si

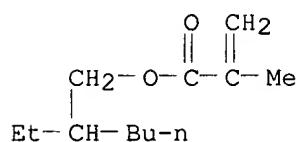
CM 9

CRN 868-77-9  
 CMF C6 H10 O3



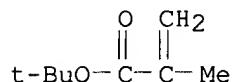
CM 10

CRN 688-84-6  
 CMF C12 H22 O2



CM 11

CRN 585-07-9  
 CMF C8 H14 O2

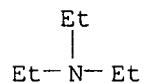


RN 180684-70-2 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester,  
 polymer  
 with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol,  
 2-ethylhexyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate  
 and .alpha.-2-propenyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft,  
 1,2-cyclohexanedicarboxylate, compd. with N,N-diethylethanamine (9CI)

(CA  
 INDEX NAME)

CM 1

CRN 121-44-8  
 CMF C6 H15 N

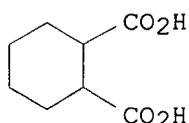


CM 2

CRN 180684-69-9  
 CMF (C<sub>12</sub> H<sub>22</sub> O<sub>2</sub> . C<sub>8</sub> H<sub>16</sub> O<sub>4</sub> Si . C<sub>8</sub> H<sub>14</sub> O<sub>2</sub> . C<sub>6</sub> H<sub>10</sub> O<sub>3</sub> . C<sub>2</sub> H<sub>8</sub> O<sub>2</sub> Si .  
 (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>6</sub> O)x . x C<sub>8</sub> H<sub>12</sub> O<sub>4</sub>  
 CDES 8:GD

CM 3

CRN 1687-30-5  
 CMF C<sub>8</sub> H<sub>12</sub> O<sub>4</sub>

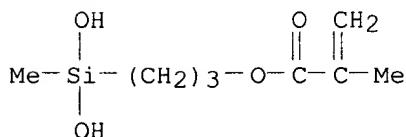


CM 4

CRN 179992-47-3  
 CMF (C<sub>12</sub> H<sub>22</sub> O<sub>2</sub> . C<sub>8</sub> H<sub>16</sub> O<sub>4</sub> Si . C<sub>8</sub> H<sub>14</sub> O<sub>2</sub> . C<sub>6</sub> H<sub>10</sub> O<sub>3</sub> . C<sub>2</sub> H<sub>8</sub> O<sub>2</sub>  
 Si . (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>6</sub> O)x  
 CCI PMS  
 CDES 8:PM, GRAFT

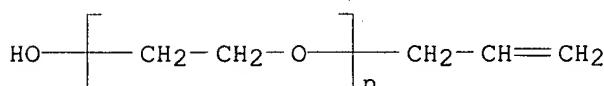
CM 5

CRN 156787-79-0  
 CMF C<sub>8</sub> H<sub>16</sub> O<sub>4</sub> Si



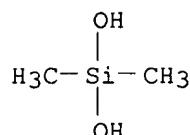
CM 6

CRN 27274-31-3  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>6</sub> O  
 CCI PMS

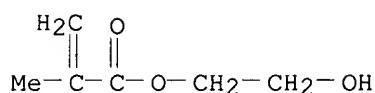


CM 7

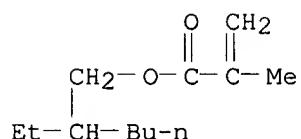
CRN 1066-42-8  
 CMF C<sub>2</sub> H<sub>8</sub> O<sub>2</sub> Si



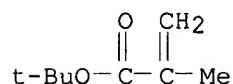
CM 8

CRN 868-77-9  
CMF C6 H10 O3

CM 9

CRN 688-84-6  
CMF C12 H22 O2

CM 10

CRN 585-07-9  
CMF C8 H14 O2

L24 ANSWER 25 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1996:241685 CAPLUS  
 DN 124:292444  
 TI Stainproof coating compositions containing acrylic resins from bulky monomers  
 IN Noritake, Yoshuki; Kawakami, Takeshi; Sugiura, Mamoru; Okude, Yoshitaka; Nikaido, Norio; Koyama, Yoichi; Kato, Makoto  
 PA Toyota Motor Co Ltd, Japan; Nippon Paint Co Ltd; Toyoda Chuo Kenkyusho  
 SO Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08020744	A2	19960123	JP 1994-157573	19940708

AB Title compns., useful for top coatings on automobile body, etc., contain acrylic resins including tert-Bu methacrylate (I), cyclohexyl methacrylate, or trimethylsilyl methacrylate, and crosslinkers. Thus, 70 parts 15:30:13:40:2 I-styrene-2-ethylhexyl acrylate-2-hydroxyethyl methacrylate-acrylic acid copolymer and 30 parts U 20SE60 were mixed to give a clear coating, which was applied onto a white precoated steel plate

and baked at 140.degree. for 30 min to give a test piece showing retention of brightness after 3-mo outdoor exposure.

IT 176205-40-6P

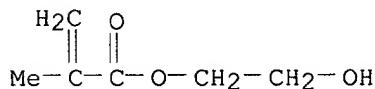
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (stainproof coatings of acrylic resins including bulky monomers and crosslinkers)

RN 176205-40-6 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, formaldehyde, 2-hydroxyethyl 2-methyl-2-propenoate, 2-propenoic acid and 1,3,5-triazine (9CI) (CA INDEX NAME)

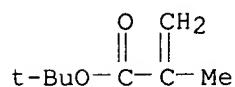
CM 1

CRN 868-77-9  
 CMF C6 H10 O3

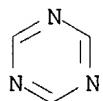


CM 2

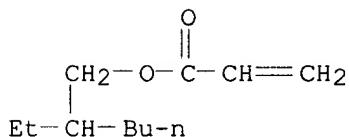
CRN 585-07-9  
 CMF C8 H14 O2



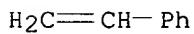
CM 3

CRN 290-87-9  
CMF C3 H3 N3

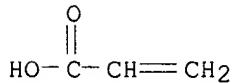
CM 4

CRN 103-11-7  
CMF C11 H20 O2

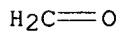
CM 5

CRN 100-42-5  
CMF C8 H8

CM 6

CRN 79-10-7  
CMF C3 H4 O2

CM 7

CRN 50-00-0  
CMF C H2 O

WILLIS      09/382708

Page 116

L24 ANSWER 26 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1996:67412 CAPLUS

DN 124:155645

TI Hair cosmetics containing cationic or amphoteric polymers

IN Narasaki, Kanji; Kawaguchi, Shigeoki; Kato, Hisayoshi

PA Mitsubishi Kagaku Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 07285831	A2	19951031	JP 1994-78842	19940418
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AB Hair cosmetics contain cationic or amphoteric polymers (wt.-av. mol. wt. 5,000-300,000) comprising copolymers of (A) ionic unsatd. monomers 20-60, (B) polyether-contg. unsatd. monomers

CH<sub>2</sub>:CR<sub>1</sub>CO(OCH<sub>2</sub>OCH<sub>2</sub>)<sub>m</sub>(OCH<sub>2</sub>CHR<sub>3</sub>)<sub>n</sub>[O(CH<sub>2</sub>)<sub>4</sub>]pOR<sub>2</sub> (R<sub>1</sub> = H, Me; R<sub>2</sub> = C<sub>1-4</sub> satd. alkyl, Ph, H; R<sub>3</sub> = C<sub>1-3</sub> satd. alkyl;

m, n, p = 0-30; m + n + p = 3-50) 21-60, (C) (meth)acrylic acid C<sub>1-24</sub> alkyl esters 10-59, and (D) other polymerizable unsatd. monomers 0-20 wt.%. The cosmetics show good hair-setting property and give flexibility to hair. Aerosol spray contg. 3 wt.% quaternization product obtained by treatment of 40:10:25:25 (by wt.) dimethylaminoethyl methacrylate-NK

Ester

M 90G-NK Ester M 230G-Bu methacrylate copolymer with monochloroacetic acid

aminomethylpropanol salt was formulated.

IT 173388-82-4P

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(hair-setting cosmetics contg. unsatd. monomer-based cationic or amphoteric polymers)

RN 173388-82-4 CAPLUS

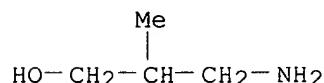
CN 2-Propenoic acid, 2-methyl-, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-propenoate, dodecyl 2-methyl-2-propenoate, methyloxirane, oxirane and 2-propenoic acid, compd.

with 3-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 15518-10-2

CMF C4 H11 N O



CM 2

CRN 173388-81-3

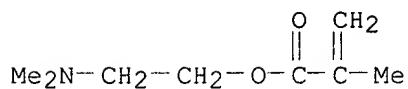
CMF (C<sub>16</sub> H<sub>30</sub> O<sub>2</sub> . C<sub>8</sub> H<sub>15</sub> N O<sub>2</sub> . C<sub>7</sub> H<sub>12</sub> O<sub>2</sub> . C<sub>4</sub> H<sub>6</sub> O<sub>2</sub> . C<sub>3</sub> H<sub>6</sub> O . C<sub>3</sub> H<sub>4</sub>

O<sub>2</sub>

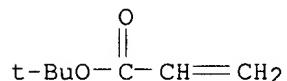
. C<sub>2</sub> H<sub>4</sub> O)x

CCI PMS

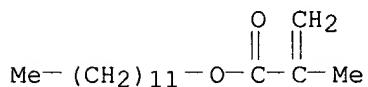
CM 3

CRN 2867-47-2  
CMF C8 H15 N O2

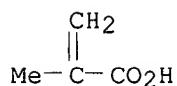
CM 4

CRN 1663-39-4  
CMF C7 H12 O2

CM 5

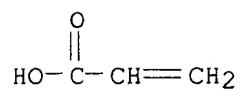
CRN 142-90-5  
CMF C16 H30 O2

CM 6

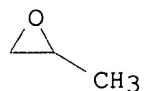
CRN 79-41-4  
CMF C4 H6 O2

CM 7

CRN 79-10-7  
CMF C3 H4 O2



CM 8

CRN 75-56-9  
CMF C<sub>3</sub> H<sub>6</sub> O

CM 9

CRN 75-21-8  
CMF C<sub>2</sub> H<sub>4</sub> O

L24 ANSWER 27 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1995:986842 CAPLUS

DN 124:59444

TI Curable compositions of hydrolyzable silyl-containing vinyl polymers and aminosilane-modified epoxy compound hardeners

IN Sato, Kuniaki; Katsurahara, Tooru; Amano, Takashi; Mukoyama, Yoshuki

PA Hitachi Chemical Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07258503	A2	19951009	JP 1994-49634	19940322

AB Curable compns. contain (A) nonaq. dispersions comprising dispersion-stabilizing vinyl resins and dispersed vinyl resin particles including SiXkR13-k on .gtoreq.1 of the 2 resins (R1 = alkyl, aryl, aralkyl; X = halo, alkoxy, acyloxy, OH; k = 1-3) and (B) aminosilane-modified epoxy resins as hardeners. Thus, 300 g 50% soln. of 75:175:180:70 .gamma.-methacryloxypropyltrimethoxysilane (I)-Bu methacrylate-2-ethylhexyl methacrylate-lauryl methacrylate copolymer in mineral turpentine (II) was treated with I 100, Me methacrylate 200, and Et acrylate 50 g in the presence of AIBN in to give a 50% dispersion in II, mixed (94 parts) with 83.3 parts II and 6 parts 124:166 Epomik R 140-.gamma.-aminopropyltriethoxysilane copolymer, and used in white enamels.

IT 172504-13-1P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (curable nonaq. vinyl polymer dispersions for coatings)

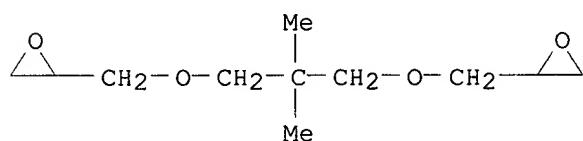
RN 172504-13-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, 2,2'-(2,2-dimethyl-1,3-propanediyl)bis(oxyethylene)bis[oxirane], dodecyl 2-propenoate, 2-ethylhexyl 2-propenoate, ethyl 2-propenoate, methyl 2-methyl-2-propenoate, 3-(triethoxysilyl)-1-propanamine and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 17557-23-2

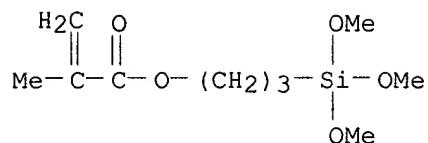
CMF C11 H20 O4



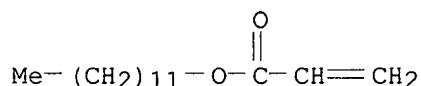
CM 2

CRN 2530-85-0

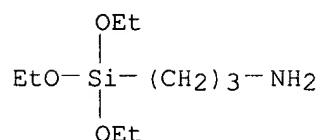
CMF C10 H20 O5 Si



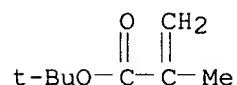
CM 3

CRN 2156-97-0  
CMF C15 H28 O2

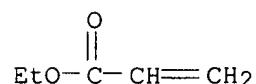
CM 4

CRN 919-30-2  
CMF C9 H23 N O3 Si

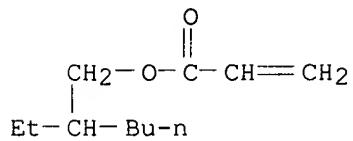
CM 5

CRN 585-07-9  
CMF C8 H14 O2

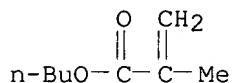
CM 6

CRN 140-88-5  
CMF C5 H8 O2

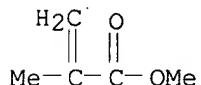
CM 7

CRN 103-11-7  
CMF C11 H20 O2

CM 8

CRN 97-88-1  
CMF C8 H14 O2

CM 9

CRN 80-62-6  
CMF C5 H8 O2

L24 ANSWER 28 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1995:951758 CAPLUS  
 DN 124:59318  
 TI Curable arylic coating compositions resistant to acid rain, scratch, fouling, and weather  
 IN Kimura, Isao; Kodama, Shunichi; Myazaki, Nobuyuki; Sasao, Yasuyuki; Kido, Koichiro; Hotsuta, Kazuhiko; Kato, Takeshi; Iwamoto, Akio  
 PA Asahi Glass Co Ltd, Japan; Mitsubishi Rayon Co  
 SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

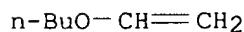
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07228816	A2	19950829	JP 1994-21388	19940218

AB Title compns. contain (A) (meth)acrylic copolymers having crosslinkable functional groups X1, (B) (meth)acrylic copolymers having crosslinkable functional groups X2 reactive to X1, (C) fluoroolefin-type copolymers having crosslinkable functional groups Y reactive to X1 and/or X2 and (D) auxiliary crosslinking agents. Thus, 15:35:15:15:10:10 styrene (I)-Bu methacrylate (II)-2-ethylhexyl methacrylate-2-ethylhexyl acrylate (III)-methacrylic acid-(2-hydroxyethyl methacrylate-succinic anhydride adduct) copolymer 54, 30:15:15:25 I-II-III-2-hydroxyethyl methacrylate-glycidyl methacrylate copolymer 30, 50:20:20:10 chlorotrifluoroethylene-cyclohexyl vinyl ether-hydroxybutyl vinyl ether-Et vinyl ether copolymer 36, and Nikalac MW 30 15 parts were mixed, overcoated on Ag-coated steel plates, and cured at 140.degree. for 30 min.

IT 172157-97-0P 172157-98-1P  
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (acrylic fluoropolymers for coatings resistant to acid rain, scratch, fouling, and weather)

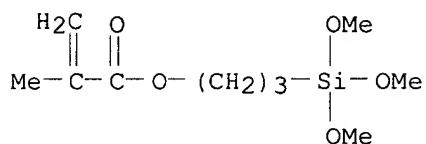
RN 172157-97-0 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, dodecyl 2-methyl-2-propenoate, ethenylbenzene, (ethoxyloxy)butanol, ethoxyethene, 2-ethylhexyl 2-propenoate, formaldehyde, 2-hydroxyethyl 2-methyl-2-propenoate, oxiranylmethyl 2-methyl-2-propenoate, 2-(2-propenoxy)ethanol, [(2-propenoxy)methyl]oxirane, tetrafluoroethene, 1,3,5-triazine-2,4,6-triamine and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1  
 CRN 42978-84-7  
 CMF C6 H12 O2  
 CCI IDS  
 CDES \*



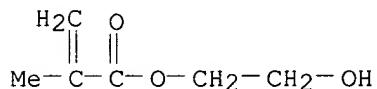
CM 2

CRN 2530-85-0  
 CMF C10 H20 O5 Si



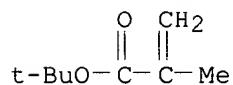
CM 3

CRN 868-77-9  
 CMF C6 H10 O3



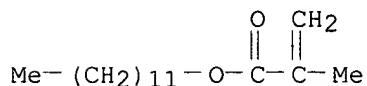
CM 4

CRN 585-07-9  
 CMF C8 H14 O2



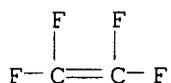
CM 5

CRN 142-90-5  
 CMF C16 H30 O2

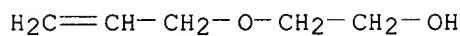


CM 6

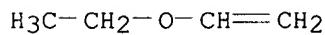
CRN 116-14-3  
 CMF C2 F4



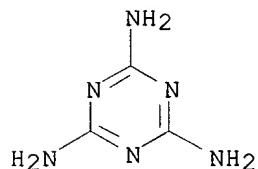
CM 7

CRN 111-45-5  
CMF C5 H10 O2

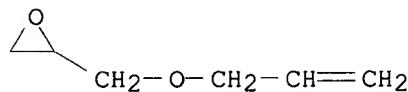
CM 8

CRN 109-92-2  
CMF C4 H8 O

CM 9

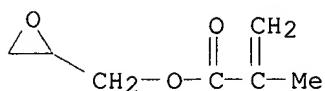
CRN 108-78-1  
CMF C3 H6 N6

CM 10

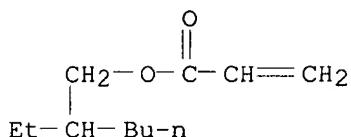
CRN 106-92-3  
CMF C6 H10 O2

CM 11

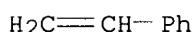
CRN 106-91-2  
CMF C7 H10 O3



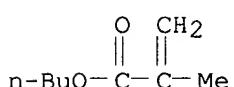
CM 12

CRN 103-11-7  
CMF C11 H20 O2

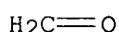
CM 13

CRN 100-42-5  
CMF C8 H8

CM 14

CRN 97-88-1  
CMF C8 H14 O2

CM 15

CRN 50-00-0  
CMF C H2 O

RN 172157-98-1 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with Coronate 2513,  
 1,1-dimethylethyl 2-methyl-2-propenoate, dodecyl 2-methyl-2-propenoate,  
 ethenylbenzene, (ethenyloxy)butanol, ethoxyethene, 2-ethylhexyl  
 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, oxiranylmethyl  
 2-methyl-2-propenoate, 2-(2-propenyloxy)ethanol, [(2-  
 propenyloxy)methyl]oxirane, tetrafluoroethene and 3-

(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

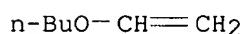
CM 1

CRN 115515-45-2  
CMF Unspecified  
CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

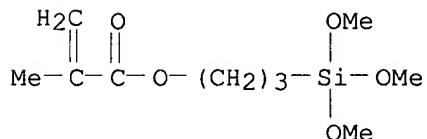
CRN 42978-84-7  
CMF C6 H12 O2  
CCI IDS  
CDES \*



D1-OH

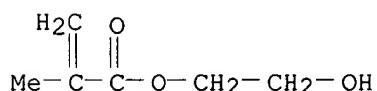
CM 3

CRN 2530-85-0  
CMF C10 H20 O5 Si



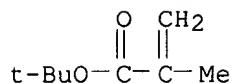
CM 4

CRN 868-77-9  
CMF C6 H10 O3

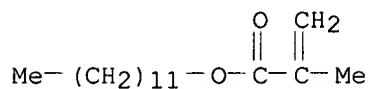


CM 5

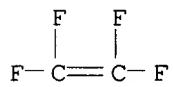
CRN 585-07-9  
CMF C8 H14 O2



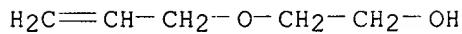
CM 6

CRN 142-90-5  
CMF C16 H30 O2

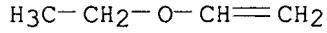
CM 7

CRN 116-14-3  
CMF C2 F4

CM 8

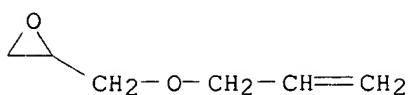
CRN 111-45-5  
CMF C5 H10 O2

CM 9

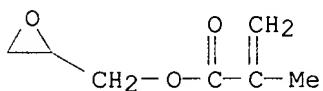
CRN 109-92-2  
CMF C4 H8 O

CM 10

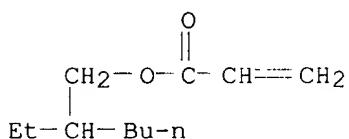
CRN 106-92-3  
CMF C6 H10 O2



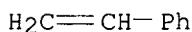
CM 11

CRN 106-91-2  
CMF C7 H10 O3

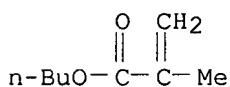
CM 12

CRN 103-11-7  
CMF C11 H20 O2

CM 13

CRN 100-42-5  
CMF C8 H8

CM 14

CRN 97-88-1  
CMF C8 H14 O2

L24 ANSWER 29 OF 46 CAPLUS COPYRIGHT 2000 ACS  
AN 1995:96732 CAPLUS

DN 122:58297

TI Dispersions of acrylic copolymers containing copolymerized emulsifier for  
antisoiling coatings

IN Kajiwara, Ichiro; Kato, Minoru; Hiraharu, Akio

PA Japan Synthetic Rubber Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06116528	A2	19940426	JP 1992-267345	19921006
	JP 3094118	B2	20001003		

AB The title copolymers are prep'd. from hydroxyalkyl (meth)acrylates, alkyl  
(meth)acrylates, unsatd. carboxylic acids, and copolymerizable  
emulsifiers

such as Aqualon RN 20. An aq. dispersion contg. particles (50 nm) of a  
3:10:40:5:1:44 Aqualon RN 20-Bu acrylate-Et acrylate-2-hydroxyethyl  
methacrylate-methacrylic acid-Me methacrylate copolymer was coated onto  
an

ABS polymer sheet and dried 0.5 h at 80.degree. to give a 10-.mu.m  
coating

showing good adhesion before and after 24 h in water and good antisoiling  
properties.

IT 160308-46-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material  
use); PREP (Preparation); USES (Uses)  
(in aq. dispersions for antisoiling coatings)

RN 160308-46-3 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate,  
1,1-dimethylethyl 2-methyl-2-propenoate, 2-hydroxyethyl  
2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and  
.alpha.-[nonyl(2-propenyl)phenyl]-.omega.-hydroxypoly(oxy-1,2-ethanediyl)  
(9CI) (CA INDEX NAME)

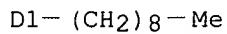
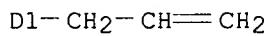
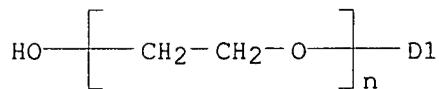
CM 1

CRN 111144-52-6

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>18</sub> H<sub>28</sub> O

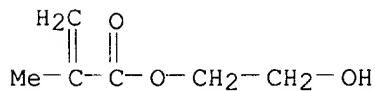
CCI IDS, PMS

CDES 8:ID,RING



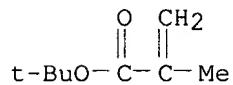
CM 2

CRN 868-77-9  
CMF C6 H10 O3



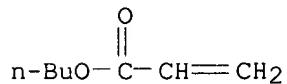
CM 3

CRN 585-07-9  
CMF C8 H14 O2



CM 4

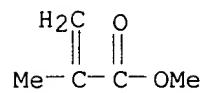
CRN 141-32-2  
CMF C7 H12 O2



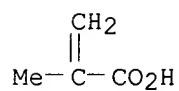
CM 5

CRN 80-62-6

CMF C5 H8 O2



CM 6

CRN 79-41-4  
CMF C4 H6 O2

L24 ANSWER 30 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1995:4696 CAPLUS  
 DN 122:10966  
 TI Water-soluble polymers containing complex hydrophobic groups  
 IN Jenkins, Richard D.; Bassett, David R.; Shay, Gregory D.  
 PA Union Carbide Chemicals and Plastics Technology Corp., USA  
 SO U.S., 27 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5292828	A	19940308	US 1992-887641	19920529
	US 5352734	A	19941004	US 1993-163485	19931207
	US 5401802	A	19950328	US 1994-251521	19940531

PRAI US 1992-887641 19920529  
 US 1993-163485 19931207

AB The title polymers, useful as thickening agents for improved paint formulations, comprise hydrophobic segments, each segment contg.

.gtoreq.1

hydrophobic group or complex hydrophobic group covalently bonded to the polymer, wherein the polymer has an amt. of complex hydrophobic groups sufficient to provide for enhanced thickening of aq. solns. contg. the polymers. These polymers provide superior thickening and leveling in aq. systems through hydrophobic assocns., and aid suspension of particulate materials in non-aq. systems. An alkali-sol. polymer was prep'd. by polymn. of a macromonomer [prep'd. by reacting 1,3-bis(nonylphenoxy)-2-propanol with m-TMI] with Et acrylate and methacrylic acid.

IT 157148-26-0P

RL: PREP (Preparation)

(prepn. of, alkali-sol., thickening agents as)

RN 157148-26-0 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, ethyl 2-propenoate, 1-(1-isocyanato-1-methylethyl)-3-(1-methylethenyl)benzene and .alpha.-[2-(nonylphenoxy)-1-[(nonylphenoxy)methyl]ethyl]-.omega.-hydroxypoly(oxy-1,2-ethanediyl)

(9CI)

(CA INDEX NAME)

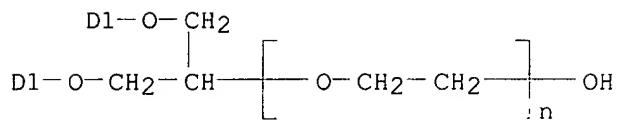
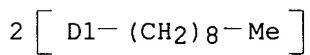
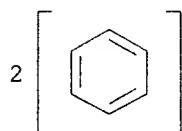
CM 1

CRN 147557-13-9

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>33</sub> H<sub>52</sub> O<sub>3</sub>

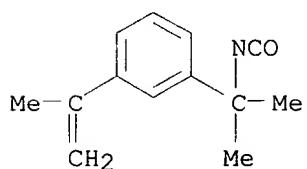
CCI IDS, PMS

CDES 8:ID



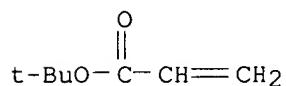
CM 2

CRN 2094-99-7  
 CMF C13 H15 N O



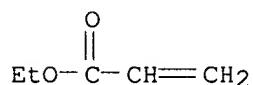
CM 3

CRN 1663-39-4  
 CMF C7 H12 O2



CM 4

CRN 140-88-5  
 CMF C5 H8 O2

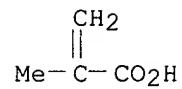


WILLIS 09/382708

Page 135

CM 5

CRN 79-41-4  
CMF C4 H6 O2



L24 ANSWER 31 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1994:702208 CAPLUS  
 DN 121:302208

TI Complex hydrophobe compounds, macromonomers, and macromonomer-containing polymers

IN Jenkins, Richard Duane; Basset, David Robinson; Shay, Gregory Dean; Smith,

Danny Elwood; Argyropoulos, John Nicholas; Loftus, James Edward

PA Union Carbide Chemicals and Plastics Technology Corp., USA

SO PCT Int. Appl., 115 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9324544	A1	19931209	WO 1993-US4872	19930524
	W: AU, BB, BG, BR, CA, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5292843	A	19940308	US 1992-887647	19920529
	US 5488180	A	19960130	US 1992-887648	19920529
	AU 9343873	A1	19931230	AU 1993-43873	19930524
	AU 672981	B2	19961024		
	EP 642540	A1	19950315	EP 1993-914075	19930524
	EP 642540	B1	19970806		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				
SE	AT 156495	E	19970815	AT 1993-914075	19930524
	ES 2105279	T3	19971016	ES 1993-914075	19930524
	FI 9405608	A	19950130	FI 1994-5608	19941128

PRAI US 1992-887644 19920529  
 US 1992-887645 19920529  
 US 1992-887647 19920529  
 US 1992-887648 19920529  
 US 1992-887673 19920529  
 WO 1993-US4872 19930524

AB Polymers, useful as thickeners in aq. systems such as paints, comprise the

reaction product of: (A) about 0-99.9 wt. percent of one or more nonionic,

cationic, anionic or amphoteric monomers; (B) about 0-99.9 wt. percent of one or more monoethylenically unsatd. monomers different from (A); (C) about 0.1-100 wt. percent of one or more monoethylenically unsatd. macromonomers different from (A) and (B); and (D) about 0-20 wt. percent or greater of one or more polyethylenically unsatd. monomers different from (A), (B) and (C). The macromonomers are manufd. from complex hydrophobe compds. having .gtoreq.1 active H or their alkoxylated derivs. Thus, reaction of TMI with polyethoxylated nonylphenol (d.p. 40) gave a macromonomer, which was polymd. (10%) with 50% Et acrylate and 40% methacrylic acid to give a polymer with Brookfield viscosity 90, 380, and 1000 cP s at 0.25, 0.5, and 0.75%, resp. and 6 rpm and pH 9 (controlled

by 2-amino-2-methylpropanol).

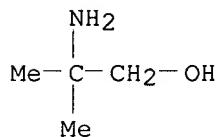
IT 159159-01-0P

RL: PREP (Preparation)  
 (manuf. of, for thickeners for aq. systems)

RN 159159-01-0 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, ethyl 2-propenoate and .alpha.-[[[1-methyl-1-[3-(1-methylethenyl)phenyl]ethyl]amino]carbonyl]-.omega.-[2-[(4,6-dimethylheptyl)phenoxy]-1-[(4,6-dimethylheptyl)phenoxy]methyl]ethoxy]poly(oxy-1,2-ethanediyl), compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

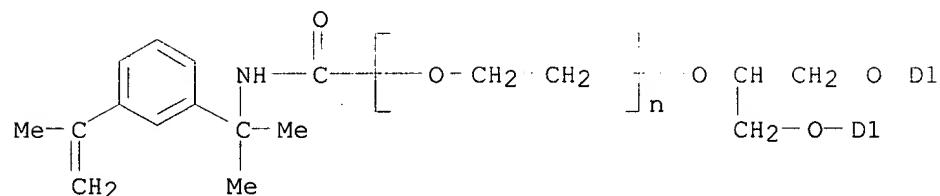
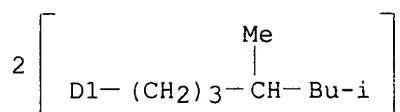
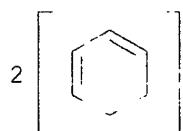
CRN 124-68-5  
CMF C4 H11 N O

CM 2

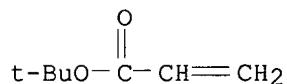
CRN 159159-00-9  
CMF (C<sub>7</sub> H<sub>12</sub> O<sub>2</sub> . C<sub>5</sub> H<sub>8</sub> O<sub>2</sub> . C<sub>4</sub> H<sub>6</sub> O<sub>2</sub> . (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>46</sub> H<sub>67</sub> N O<sub>4</sub>)<sub>x</sub>  
CCI PMS

CM 3

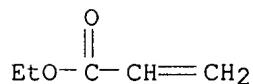
CRN 159158-74-4  
CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>46</sub> H<sub>67</sub> N O<sub>4</sub>  
CCI IDS, PMS  
CDES 8:ID



CM 4

CRN 1663-39-4  
CMF C7 H12 O2

CM 5

CRN 140-88-5  
CMF C5 H8 O2

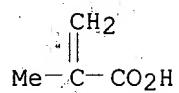
CM 6

CRN 79-41-4  
CMF C4 H6 O2

WILLIS

09/382708

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L24 ANSWER 32 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1994:632611 CAPLUS  
 DN 121:232611  
 TI Aircraft anti-icing fluids thickened by associative polymers  
 IN Jenkins, Richard Dean; Bassett, David Robinson; Lightfoot, Richard Hall;  
 Boluk, Mehmut Yaman  
 PA Union Carbide Chemicals and Plastics Technology Corp., USA  
 SO PCT Int. Appl., 103 pp.  
 CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9324543	A2	19931209	WO 1993-US4865	19930524
	W: AU, BB, BG, BR, CA, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5461100	A	19951024	US 1992-887643	19920529
	AU 9343872	A1	19931230	AU 1993-43872	19930524
	EP 642542	A1	19950315	EP 1993-914069	19930524
	R: AT, BE, CH, DE, DK, FR, GB, LI, NL, SE				
	JP 07507581	T2	19950824	JP 1993-500660	19930524
	RU 2130474	C1	19990520	RU 1994-46104	19930524
	FI 9405513	A	19941123	FI 1994-5513	19941123

PRAI US 1992-887643 19920529

WO 1993-US4865 19930524

AB An anti-icing fluid suitable for ground treatment of aircraft comprises a glycol-based, aq. soln. contg. a hydrophobe-bearing, macromonomer-contg. polymer thickener in an amt. of less than about 5 wt.%. Thickening occurs

predominantly by assocn. among hydrophobe groups. Thickening may be enhanced by addn. of a surfactant or other materials which act as co-thickeners. Use of this thickened fluid does not adversely affect airfoil lift characteristics during takeoff, because the fluid exhibits shear thinning and readily flows off the aircraft surfaces when exposed to

wind shear during the aircraft's takeoff run.

IT 158461-24-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, as thickeners for deicers)

RN 158461-24-6 CAPLUS

L24 ANSWER 33 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1994:545411 CAPLUS  
 DN 121:145411  
 TI Thermal transfer recording material  
 IN Tanaka, Kazuyoshi; Hashimoto, Yutaka; Kamei, Masayuki  
 PA Dainippon Ink & Chemicals, Japan  
 SO Jpn. Kokai Tokkyo Koho, 16 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 05185757	A2	19930727	JP 1992-4835	19920114

AB In the title material consisting of a base film, an ink layer on 1 side of

the base film, and a synthetic resin layer on the other side, the above resin layer contains a resin contg. fluorinated-alkyl and polyorganosiloxy

groups and, optionally, in addn., polyoxyalkylene or polyoxyalkylene and alkyl groups. The above resin consists of a polymer obtained from a fluorinated-alkyl group-contg. ethylenic monomer and a polyorgnosiloxy group-contg. ethylenic monomer and, optionally, in addn., a polyoxyalkylene group-contg. ethylenic monomer and alkylene group-contg. ethylenic monomer. The material treated with the above resin has anti-sticking characteristics and provides high-resoln. and high-quality printings at high speed printing.

IT 156932-47-7

RL: USES (Uses)

(treatment agent contg., thermal printing material treated)

RN 156932-47-7 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with

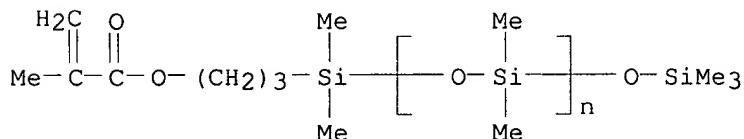
.alpha.-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-.omega.- [(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], 2-[[(heptadecafluoroctyl)sulfonyl]propylamino]ethyl 2-propenoate and .alpha.-[(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C<sub>2</sub> H<sub>6</sub> O Si)<sub>n</sub> C<sub>12</sub> H<sub>26</sub> O<sub>3</sub> Si<sub>2</sub>

CCI PMS

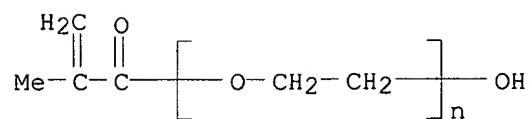


CM 2

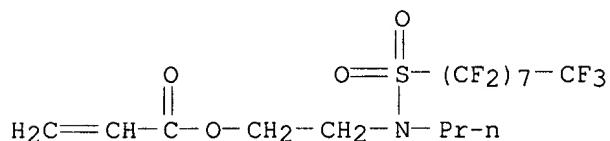
CRN 25736-86-1

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>

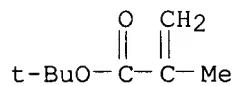
CCI PMS



CM 3

CRN 2357-60-0  
CMF C16 H14 F17 N O4 S

CM 4

CRN 585-07-9  
CMF C8 H14 O2

L24 ANSWER 34 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1994:411846 CAPLUS  
 DN 121:11846

TI Aqueous silicone modified polymers  
 IN Mizutani, Keita; Oosugi, Koji; Eguchi, Yoshio  
 PA Nippon Paint Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 14 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese  
 FAN.CNT 1

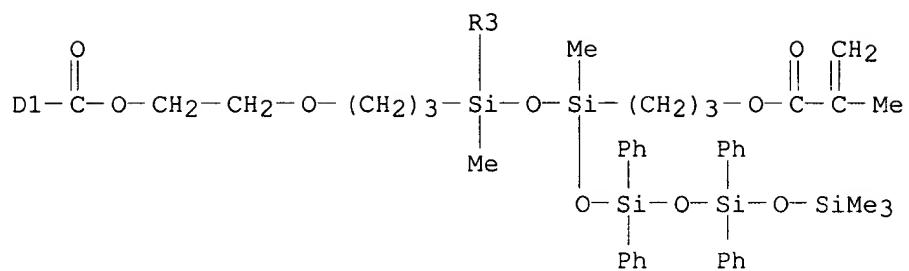
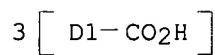
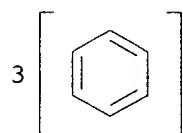
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06025369	A2	19940201	JP 1993-114559	19930517
PRAI	JP 1992-123716		19920515		
AB	Title polymers, to form coating films with good water repellency, are composed of film-formable copolymers contg. (A) .alpha.,.beta.-ethylenic unsatd. monomers and (B) .gtoreq.1 silicone compds. chosen from R13SiO(SiR12O) <sup>a</sup> (SiR1XO) <sup>b</sup> (SiR1YO) <sup>c</sup> SiR13 and YR12SiO(SiR12O) <sup>a</sup> (SiR1XO) <sup>b</sup> SiR12Y [R1 = Ph, C1-6 alkyl; X = 3-(meth)acryloxypropyl; Y = monovalent substituent contg. CO2H, SO3H, and/or NR22 (R2 = org. residue); a = 1-20; b = 0.5-3; c = 1-10]. Thus, a mixt. contg. 40 parts Me methacrylate and 40 parts 2-ethylhexyl methacrylate and a mixt. contg. 4,4'-azobis-4-cyanovaleic acid 0.5, dimethylethanolamine 0.4, and H2O 50 parts were dropped sep. during 2 h into a blend of HO2C(CH2)10[SiMe(C3H6O2CCMe:CH2)O] (SiMe2O)7SiMe2(CH2)10CO2H 20, dimethylethanolamine 2.2, and H2O 350 parts preheated at 80.degree., and kept at 80.degree. for 3 h to give a water-dispersed silicone-graft acrylic resin with particle size 120 nm, wt. av. mol. wt. 900,000, and nonvolatile 19.7%. A coating film obtained from the resin showed good appearance and good water repellency.				

IT 155942-73-7P  
 RL: PREP (Preparation)  
 (prepn. of, for aq. water-repellent coatings)  
 RN 155942-73-7 CAPLUS  
 CN Benzenedicarboxylic acid, [1-[1,3-bis[3-(2-hydroxyethoxy)propyl]-1,3,5,5,5-pentamethyltrisiloxanyl]oxy]-1,3,5-trimethyl-5-[{1,7,7,7-tetramethyl-1-[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]-3,3,5,5-tetraphenyltetrasiloxanyl}oxy]-1,3,5-trisiloxanetriyl]tris(3,1-propanediyl-2,1-ethanediyl) ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate and 2-ethylhexyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

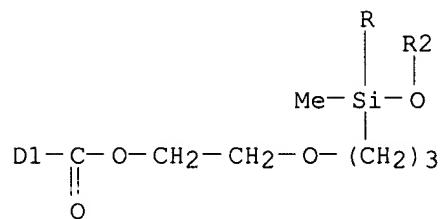
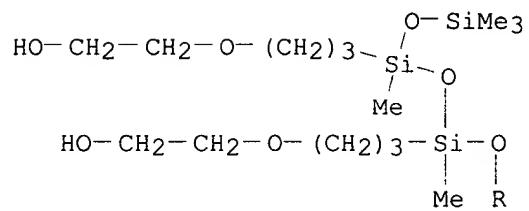
CM 1

CRN 155942-72-6  
 CMF C92 H134 O30 Si10  
 CCI IDS  
 CDES 8:ID

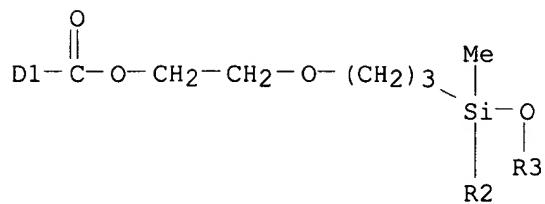
PAGE 1-A



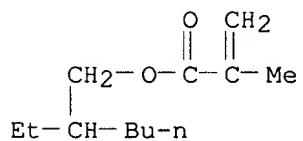
PAGE 2-A



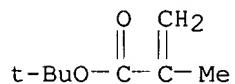
PAGE 3-A



CM 2

CRN 688-84-6  
CMF C12 H22 O2

CM 3

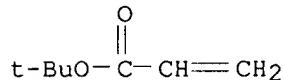
CRN 585-07-9  
CMF C8 H14 O2

L24 ANSWER 35 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1994:220685 CAPLUS  
 DN 120:220685  
 TI Dispersants for rosin-based emulsion sizes for paper  
 IN Niike, Hitoshi; Sakuraba, Noriko  
 PA Dai Ichi Kogyo Seiyaku Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 30 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05239797	A2	19930917	JP 1992-75314	19920225
AB	The title dispersants, giving stable emulsions even in hard water, comprise copolymers prep'd. from monomers contg. (substituted) 1-propenylphenyl groups, (meth)acrylic acids, esters, and salts, and/or styrene-type monomers. A dispersant comprised a copolymer of RO(C <sub>2</sub> H <sub>4</sub> O) <sub>3</sub> (C <sub>3</sub> H <sub>6</sub> O)C <sub>3</sub> H <sub>7</sub> [R = 4-methyl-2-(1-propenyl)phenyl] 40, Me methacrylate 10, and Me acrylate 50 parts.				
IT	<b>154295-86-0</b>				
RL:	USES (Uses) (dispersants, for rosin sizes for paper)				
RN	154295-86-0 CAPLUS				
CN	2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, ethenylbenzene, 2-ethylhexyl 2-methyl-2-propenoate and methyloxirane polymer with oxirane and tetrahydrofuran hydrogen phosphate (2:1) bis(4-eicosyl-2,6-di-1-propenylphenyl) ether (9CI) (CA INDEX NAME)				

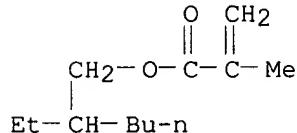
CM 1

CRN 1663-39-4  
 CMF C7 H12 O2



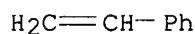
CM 2

CRN 688-84-6  
 CMF C12 H22 O2



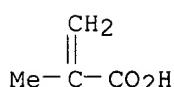
CM 3

CRN 100-42-5  
 CMF C8 H8



CM 4

CRN 79-41-4  
CMF C4 H6 O2

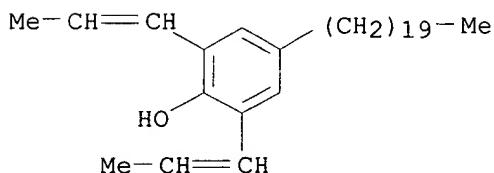


CM 5

CRN 153890-73-4  
CMF C32 H54 O . (C4 H8 O . C3 H6 O . C2 H4 O)x . 1/2 H3 O4 P  
CDES 8:GD, ESTER, ETHER

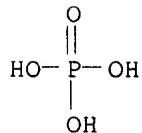
CM 6

CRN 165800-22-6  
CMF C32 H54 O



CM 7

CRN 7664-38-2  
CMF H3 O4 P



CM 8

CRN 31587-08-3  
CMF (C4 H8 O . C3 H6 O . C2 H4 O)x  
CCI PMS

WILLIS 09/382708

Page 148

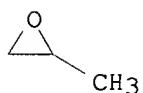
CM 9

CRN 109-99-9  
CMF C4 H8 O



CM 10

CRN 75-56-9  
CMF C3 H6 O



CM 11

CRN 75-21-8  
CMF C2 H4 O



L24 ANSWER 36 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1992:216538 CAPLUS  
 DN 116:216538  
 TI Durable marine antifouling agents  
 IN Arimoto, Yasutaka; Hayashi, Seiichi; Rakutani, Kenji; Shiota, Yusuke  
 PA Katayama Chemical, Inc., Japan; Nippon Shokubai Kagaku Kogyo Co., Ltd.  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03252462	A2	19911111	JP 1990-49917	19900228
	JP 2875328	B2	19990331		

AB The title agents having low toxicity and low water temp. dependence of release properties contain copolymers (mol. wt. 5000-500,000) from CH<sub>2</sub>:CR<sub>1</sub>CO<sub>2</sub>-N+R<sub>2</sub>R<sub>3</sub>R<sub>4</sub> [R<sub>1</sub> = H, Me; R<sub>2</sub> = (un)satd. higher aliph. hydrocarbyl;  
 R<sub>3</sub> = H, (un)satd. lower hydrocarbyl; R<sub>4</sub> = H, (un)satd. aliph. hydrocarbyl with or without amino substituent] 60-94, CH<sub>2</sub>:CR<sub>5</sub>CO<sub>2</sub>XnR<sub>6</sub> (R<sub>5</sub> = H, Me; X = C<sub>2</sub>-4 oxyalkylene contg. >50% oxyethylene; n = 1-100; R<sub>6</sub> = H, C<sub>1</sub>-5 hydrocarbyl) 1-5, and CH<sub>2</sub>:CR<sub>7</sub>CO<sub>2</sub>R<sub>8</sub> (R<sub>7</sub> = H, Me; R<sub>8</sub> = C<sub>1</sub>-20 hydrocarbyl) 5-39%. A typical agent used on polyethylene fish net contained 60.5:2.8:22.6:14.1 dodecylamine acrylate-2-hydroxyethyl acrylate-Me methacrylate-2-ethylhexyl acrylate copolymer (mol. wt. 125,000).

IT 140142-58-1

RL: USES (Uses)

(marine antifouling agents, low-toxic, slow-release, for fish nets)

RN 140142-58-1 CAPLUS

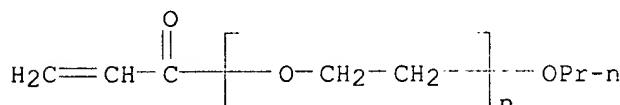
CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with 2-ethylhexyl 2-propenoate, N-octadecyl-1-octadecanamine 2-propenoate and .alpha.- (1-oxo-2-propenyl)-.omega.-propoxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 92138-90-4

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>6</sub> H<sub>10</sub> O<sub>2</sub>

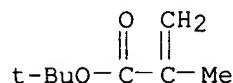
CCI PMS



CM 2

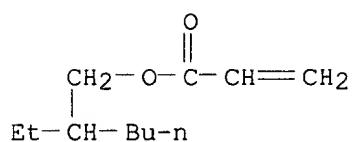
CRN 585-07-9

CMF C<sub>8</sub> H<sub>14</sub> O<sub>2</sub>



CM 3

CRN 103-11-7  
CMF C11 H20 O2



CM 4

CRN 140142-57-0  
CMF C<sub>36</sub> H<sub>75</sub> N . C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>

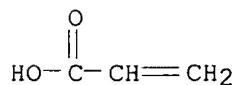
CM 5

CRN 112-99-2  
CMF C<sub>36</sub> H<sub>75</sub> N

Me—(CH<sub>2</sub>)<sub>17</sub>—NH—(CH<sub>2</sub>)<sub>17</sub>—Me

CM 6

CRN 79-10-7  
CMF C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>



L24 ANSWER 37 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1992:196428 CAPLUS  
 DN 116:196428  
 TI Durable marine antifouling agents  
 IN Arimoto, Yasutaka; Hayashi, Seiichi; Rakutani, Kenji; Shioda, Yusuke  
 PA Katayama Chemical, Inc., Japan; Nippon Shokubai Kagaku Kogyo Co., Ltd.  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03252463	A2	19911111	JP 1990-49918	19900228
	JP 2875329	B2	19990331		

AB The title agents having low toxicity and low water-temp. dependence of release properties contain copolymers (mol. wt. 5000-500,000) of unsatd. carboxylic acid monomer 10-80, CH<sub>2</sub>:CR<sub>1</sub>CO<sub>2</sub>XnR<sub>2</sub> (R<sub>1</sub> = H, Me; X = C<sub>2</sub>-4 oxyalkylene with oxyethylene content >50%; n = 1-100; R<sub>2</sub> = H, C<sub>1</sub>-5 hydrocarbyl) 1-25, CH<sub>2</sub>:CR<sub>3</sub>CO<sub>2</sub>R<sub>4</sub> (R<sub>3</sub> = H, Me; R<sub>4</sub> = C<sub>1</sub>-20 hydrocarbyl)

5-89,

and other vinyl monomer 0-20%, and 0.5-1.5 mol (to 1 carboxy group of the copolymer) R<sub>5</sub>R<sub>6</sub>R<sub>7</sub>N [R<sub>5</sub> = satd. or (un)satd. higher aliph. hydrocarbyl; R<sub>6</sub> = H, (un)satd. lower hydrocarbyl; R<sub>7</sub> = H, (un)satd. hydrocarbyl with or without amino substituent]. A typical compn. used for polyethylene fish nets contained 25:5:40:30 acrylic acid-2-hydroxyethyl acrylate-Me methacrylate-2-ethylhexyl acrylate copolymer (mol. wt. 50,000) and 1.5 mol

(to 1 carboxy group in the copolymer) N-octadecyltrimethylenediamine.

IT 140667-39-6

RL: USES (Uses)

(marine antifouling agents, low-toxic, slow-release, for fish nets)

RN 140667-39-6 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with .alpha.-(1-oxo-2-propenyl)-.omega.-propoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, compd. with N-octadecyl-1-octadecanamine (9CI) (CA INDEX NAME)

CM 1

CRN 112-99-2

CMF C36 H75 N

Me- (CH<sub>2</sub>)<sub>17</sub>-NH- (CH<sub>2</sub>)<sub>17</sub>-Me

CM 2

CRN 140667-38-5

CMF (C<sub>8</sub> H<sub>14</sub> O<sub>2</sub> . C<sub>3</sub> H<sub>4</sub> O<sub>2</sub> . (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>6</sub> H<sub>10</sub> O<sub>2</sub>)<sub>x</sub>

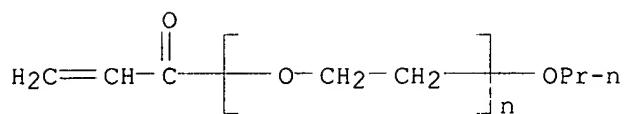
CCI PMS

CM 3

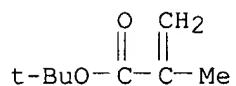
CRN 92138-90-4

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>6</sub> H<sub>10</sub> O<sub>2</sub>

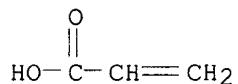
CCI PMS



CM 4

CRN 585-07-9  
CMF C8 H14 O2

CM 5

CRN 79-10-7  
CMF C3 H4 O2

L24 ANSWER 38 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1992:61682 CAPLUS  
 DN 116:61682  
 TI Resin compositions for high-stretch coating materials  
 IN Kumada, Hajime; Shoji, Akio  
 PA Dainippon Ink and Chemicals, Inc., Japan  
 SO Jpn. Kokai Tokkyo Koho, 25 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

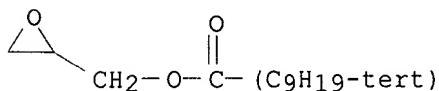
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03097707	A2	19910423	JP 1989-235252	19890911

AB Coating materials contain vinyl polymers using adducts of lactones with esters of .alpha.,.beta.-ethylenic unsatd. carboxylic acid with natural or synthetic fatty acid glycidyl esters as the monomers, polyisocyanates, and nonpolar org. solvents. Thus, isophthalic acid 513, maleic anhydride 19, adipic acid 106, neopentyl glycol 391, trimethylolpropane 83, and pentaerythritol 30 parts were polymd., thinned to 60% nonvolatiles, mixed (34 parts) with xylene 686, a 508:116:114 Cardura E 10-fumaric acid-.epsilon.-caprolactone adduct 150, styrene 100, Bu methacrylate 200, tert-Bu methacrylate 175, iso-Bu acrylate 100, Placcel FM-1 100, 2-hydroxyethyl methacrylate 203, and methacrylic acid 2 parts, polymd. in the presence of tert-Bu peroctoate to give a copolymer, mixed (100 parts) with Ti oxide 43, a thinner 30, and Burnock DN-950 40.7 parts, and coated on phosphated dull steel and polyurethanes for bumpers.

IT 138532-26-0  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (coatings, crosslinking agents for, polyisocyanates as)  
 RN 138532-26-0 CAPLUS  
 CN tert-Decanoic acid, oxiranylmethyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, 2-methyl-2-propenoic acid, 2-methylpropyl 2-methyl-2-propenoate and 2-oxepanone (9CI) (CA INDEX NAME)

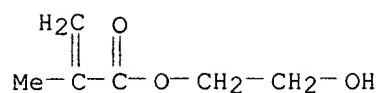
CM 1

CRN 71206-09-2  
 CMF C13 H24 O3  
 CCI IDS  
 CDES 8:ID,TERT

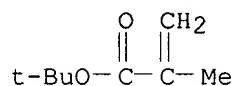


CM 2

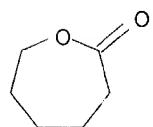
CRN 868-77-9  
 CMF C6 H10 O3



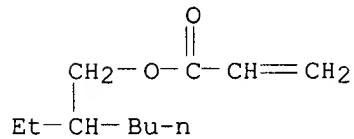
CM 3

CRN 585-07-9  
CMF C8 H14 O2

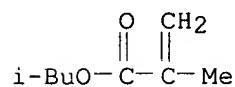
CM 4

CRN 502-44-3  
CMF C6 H10 O2

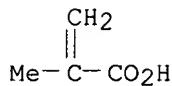
CM 5

CRN 103-11-7  
CMF C11 H20 O2

CM 6

CRN 97-86-9  
CMF C8 H14 O2

CM 7

CRN 79-41-4  
CMF C4 H6 O2

IT 138532-19-1 138623-43-5

RL: TEM (Technical or engineered material use); USES (Uses)  
(coatings, high-stretch)

RN 138532-19-1 CAPLUS

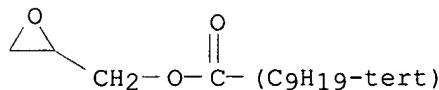
CN tert-Decanoic acid, oxiranylmethyl ester, polymer with Burnock DN 980,  
1,1-dimethylethyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate,  
2-hydroxyethyl 2-methyl-2-propenoate, 2-methyl-2-propenoic acid,  
2-methylpropyl 2-methyl-2-propenoate and 2-oxepanone (9CI) (CA INDEX  
NAME)

CM 1

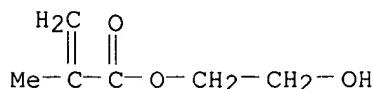
CRN 113148-38-2  
CMF Unspecified  
CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

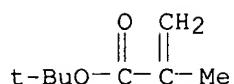
CRN 71206-09-2  
CMF C13 H24 O3  
CCI IDS  
CDES 8:ID, TERT

CM 3

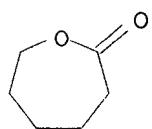
CRN 868-77-9  
CMF C6 H10 O3

CM 4

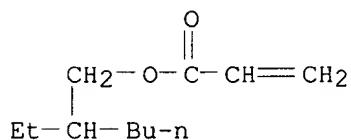
CRN 585-07-9  
CMF C8 H14 O2



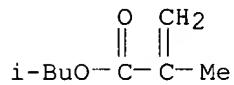
CM 5

CRN 502-44-3  
CMF C6 H10 O2

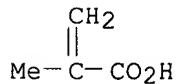
CM 6

CRN 103-11-7  
CMF C11 H20 O2

CM 7

CRN 97-86-9  
CMF C8 H14 O2

CM 8

CRN 79-41-4  
CMF C4 H6 O2

RN 138623-43-5 CAPLUS  
 CN 2-Butenedioic acid (2E)-, polymer with Acryester SL, Desmodur H,  
 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, 2-methylpropyl  
 2-methyl-2-propenoate, 1,12-octadecanediol, 2-oxepanone and  
 oxiranylmethyl  
 tert-decanoate (9CI) (CA INDEX NAME)

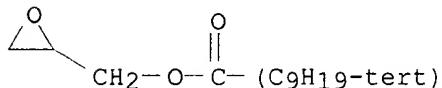
CM 1

CRN 105863-97-6  
 CMF Unspecified  
 CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 71206-09-2  
 CMF C13 H24 O3  
 CCI IDS  
 CDES 8:ID, TERT



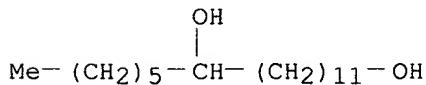
CM 3

CRN 52276-54-7  
 CMF Unspecified  
 CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

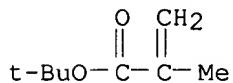
CM 4

CRN 2726-73-0  
 CMF C18 H38 O2

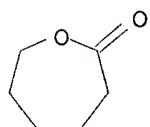


CM 5

CRN 585-07-9  
 CMF C8 H14 O2



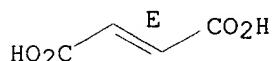
CM 6

CRN 502-44-3  
CMF C6 H10 O2

CM 7

CRN 110-17-8  
CMF C4 H4 O4  
CDES 2:E

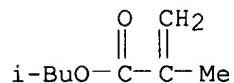
Double bond geometry as shown.



CM 8

CRN 100-42-5  
CMF C8 H8

CM 9

CRN 97-86-9  
CMF C8 H14 O2

L24 ANSWER 39 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1992:22982 CAPLUS

DN 116:22982

TI Thermosetting acrylic polymer-polyisocyanate coating compositions for automobile bodies

IN Hotta, Kazuhiko; Kido, Koichiro

PA Mitsubishi Rayon Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 03160076	A2	19910710	JP 1989-298451	19891116
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AB The title compns. with excellent gloss and resistance to scratch, acid, gasoline, hot water, and weathering comprise (A) acrylic copolymers with OH value (OHV) 100-200, acid value (AV) 0.1-20, and glass transition point

(Tg) from -50 to +50.degree. and prep'd. from

CH2:CR1CO2(CH2)xCH(OH)(CH2)yH  
 (R1 = H, Me; x, y = 1-5) 100, CH2:CR2CO2R3 [R2 = H, Me; R3 = R4O[CO(CH2)10]kH, R5O(CH2CHR6O)jH, CH2CHR7O(CH2CH2CO2CH2CHR8O)mH; R4-5 = C1-8 alkylene; R6-8 = H, Me; l = 2-5; k = 1-7; j = 2-10; m = 1-3]

25-1000,

vinyl monomers contg. .gtoreq.1 of carboxy, sulfo, or phosphono group 0.25-200, and CH2:CR9CO2R10 (R9 = H, Me; R10 = C4-20 hydrocarbyl) 37.5-1200 parts and (B) polyisocyanates, at OH/NCO equiv ratio of 1/(0.5-1.5). Thus. 2-hydroxypropyl methacrylate 100, Placcel FM 2 233, methacrylic acid 3.3, Bu methacrylate 133, Bu acrylate 30, and styrene

167

parts were polymd. in Solvesso 100 in the presence of AIBN and tert-butylperoxy iso-Pr carbonate to give a 60% acrylic polymer (Tg 14.degree., OHV 113 mgKOH/g, AV 3 mgKOH/g) soln. A compn. contg. the soln. 100, Coronate EH 25, Modaflow 0.09, Tinuvin 328 1.1, and Sanol LS 770 1.1 parts formed a clear coat with excellent resistance to gasoline, 10% aq. H2SO4, hot water (50.degree.), and weathering when applied wet-on-wet with an acrylic polymer base coat to a steel sheet precoated with an electrophoretic primer and an intermediate coat and baked at 140.degree..

IT 138105-21-2P

RL: PREP (Preparation)

(prepn. of, coatings, acid- and gasoline- and scratch-resistant, for automobiles)

RN 138105-21-2 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with Coronate EH, cyclohexyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, dodecyl 2-methyl-2-propenoate, ethenylbenzene, 2-hydroxybutyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-propenoate, 2-hydroxypropyl 2-propenoate and .alpha.- (2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 86472-86-8

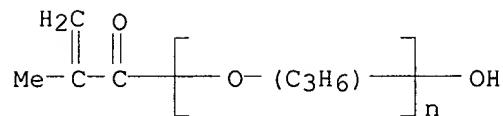
CMF Unspecified

CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

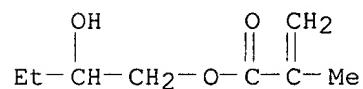
CM 2

CRN 39420-45-6  
 CMF (C<sub>3</sub>H<sub>6</sub>O)<sub>n</sub> C<sub>4</sub>H<sub>6</sub>O<sub>2</sub>  
 CCI IDS, PMS  
 CDES 8:ID



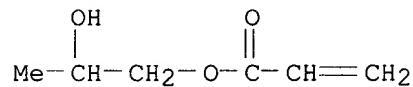
CM 3

CRN 13159-51-8  
 CMF C<sub>8</sub>H<sub>14</sub>O<sub>3</sub>



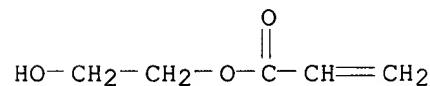
CM 4

CRN 999-61-1  
 CMF C<sub>6</sub>H<sub>10</sub>O<sub>3</sub>



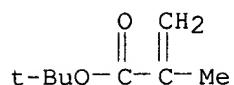
CM 5

CRN 818-61-1  
 CMF C<sub>5</sub>H<sub>8</sub>O<sub>3</sub>

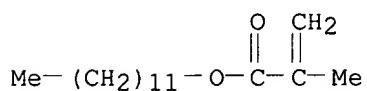


CM 6

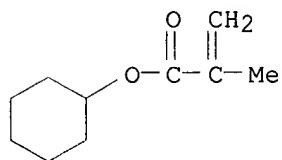
CRN 585-07-9  
 CMF C<sub>8</sub>H<sub>14</sub>O<sub>2</sub>



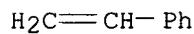
CM 7

CRN 142-90-5  
CMF C16 H30 O2

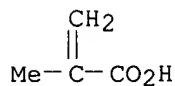
CM 8

CRN 101-43-9  
CMF C10 H16 O2

CM 9

CRN 100-42-5  
CMF C8 H8

CM 10

CRN 79-41-4  
CMF C4 H6 O2

L24 ANSWER 40 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1991:585452 CAPLUS

DN 115:185452

TI Coating formation for automobiles

IN Mita, Takashi; Kido, Koichiro

PA Mitsubishi Rayon Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03077677	A2	19910403	JP 1989-214646	19890821
	JP 2896790	B2	19990531		

AB The weather-resistant coatings are formed by coating with color or metal-pigmented bases, wet-on-wet covering with clear tops contg. 'A: mixts. of acrylic polymers having acid value (Va) 2-40 and aminoplasts having Va 50-150, and (B) mixts. contg. initiators 0.1-3.0, driers 0-1.0, unsatd. oligomers and/or vinyl compds. 65-90, and A[(CHR<sub>1</sub>CHOBQ)<sub>n</sub>R<sub>5</sub>]<sub>1</sub> [A = active H-free carboxylic acid, alc., thiol, amide or secondary amine residue; B = active H-free acid, alc., thiol, and/or amide residue; Q = (CH<sub>2</sub>)<sub>m</sub>C(R<sub>2</sub>):CR<sub>3</sub>R<sub>4</sub>; R<sub>1</sub>-R<sub>4</sub> = H, C<sub>1</sub>-5 alkyl; R<sub>5</sub> = H, C<sub>1</sub>-10 alkyl; m = 0-1; n .gt;req. 1; l = active H no. of A], and hardening. Thus, a steel panel was coated with a compn. contg. Al paste, U-Van 205E, and styrene (I)-methacrylic acid (II)-Me methacrylate-ethylene glycol-2-hydroxyethyl acrylate copolymer, set 3 min, topped with a compn. of 10 parts 30:70 U-Van 205E and I-II-Bu methacrylate-tert-Bu methacrylate-2-ethylhexyl methacrylate-2-hydroxyethyl methacrylate copolymer and 90 parts compn. of initiator 0.3, poly(alkyl glycidyl ether) ethylene glycol ether 10, and trimethylolpropane trimethacrylate-polyoxyethylene diacrylate copolymer 90%, and cured at 140.degree. for 2 min to give a coating with good smoothness and acid, water, and weather resistance.

IT 136535-74-5 136625-21-3

RL: USES (Uses)

(top coatings, in two-coat-one-bake, acid-, water-, and weather-resistant automotive coatings)

RN 136535-74-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethylhexyl 2-methyl-2-propenoate, 1,6-hexanediyil di-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate,

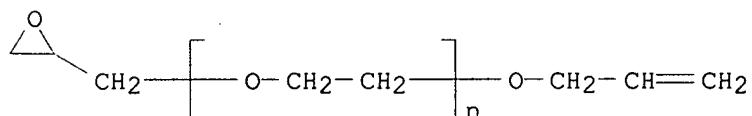
2-(hydroxymethyl)-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and .alpha.- (oxiranylmethyl)-.omega.- (2-propenoxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

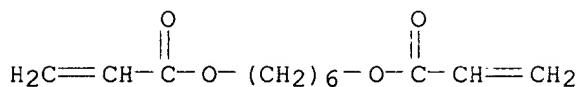
CRN 52683-23-5

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>6</sub> H<sub>10</sub> O<sub>2</sub>

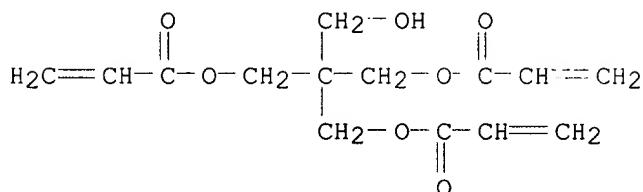
CCI PMS



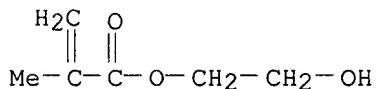
CM 2

CRN 13048-33-4  
CMF C12 H18 O4

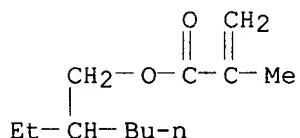
CM 3

CRN 3524-68-3  
CMF C14 H18 O7

CM 4

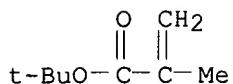
CRN 868-77-9  
CMF C6 H10 O3

CM 5

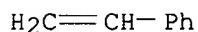
CRN 688-84-6  
CMF C12 H22 O2

CM 6

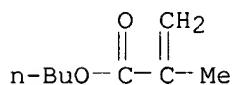
CRN 585-07-9  
CMF C8 H14 O2



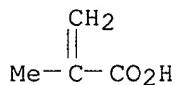
CM 7

CRN 100-42-5  
CMF C8 H8

CM 8

CRN 97-88-1  
CMF C8 H14 O2

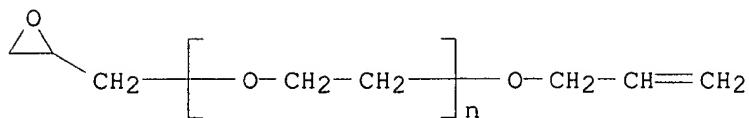
CM 9

CRN 79-41-4  
CMF C4 H6 O2

RN 136625-21-3 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate,  
 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethylhexyl  
 2-methyl-2-propenoate,  
 2-ethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-  
 1,3-propanediyl bis(2-methyl-2-propenoate), 2-hydroxyethyl  
 2-methyl-2-propenoate, .alpha.- (oxiranylmethyl)-.omega.- (2-  
 propenyloxy)poly(oxy-1,2-ethanediyl) and .alpha.- (1-oxo-2-propenyl)-  
 .omega.- [(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX  
 NAME)

CM 1

CRN 52683-23-5  
CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>6</sub> H<sub>10</sub> O<sub>2</sub>  
CCI PMS

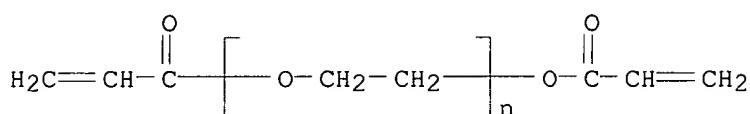


CM 2

CRN 26570-48-9

CMF  $(\text{C}_2 \text{ H}_4 \text{ O})_n$  C6 H6 O3

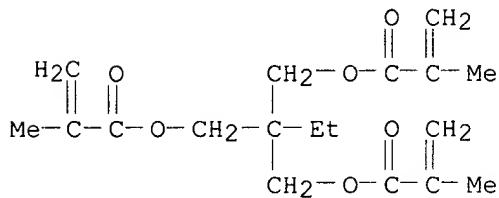
CCI PMS



CM 3

CRN 3290-92-4

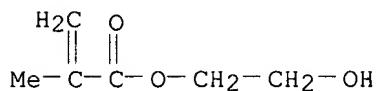
CMF C18 H26 O6



CM 4

CRN 868-77-9

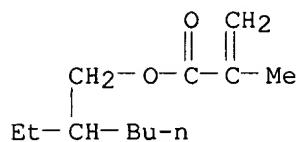
CMF C6 H10 O3



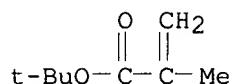
CM 5

CRN 688-84-6

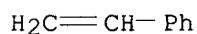
CMF C12 H22 O2



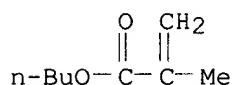
CM 6

CRN 585-07-9  
CMF C8 H14 O2

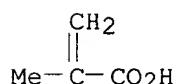
CM 7

CRN 100-42-5  
CMF C8 H8

CM 8

CRN 97-88-1  
CMF C8 H14 O2

CM 9

CRN 79-41-4  
CMF C4 H6 O2

L24 ANSWER 41 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1990:236951 CAPLUS

DN 112:236951

TI Acrylic colored base and clear top coating compositions

IN Hotta, Kazuhiko; Kido, Koichiro

PA Mitsubishi Rayon Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 01234473	A2	19890919	JP 1988-58431	19880314
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AB The title coatings with good scratch and weather resistance are formed by coating with colorant (metal powder)-contg. base compns. comprising 40-90 parts polymers having OH value 20-100 mg KOH/g and acid value 0.5-35 mgKOH/g, prepnd. from OH-contg. vinyl compds. 5-40, C1-4 alkyl (meth)acrylates 30-94.5, C1-8 alkyl maleates, fumarates, or itaconates 0.5-8, and other vinyl compds. 0-64.5%, crosslinked with 10-60 parts aminoplasts, and applying wet-on-wet with clear compns. comprising 60-95 parts polymer with OH no. 70-16, acid no. 0.5-20, and glass-transition temp. (Tg) -50 to 50.degree., prepnd. from OH-contg. (meth)acrylates

10-60,

CO<sub>2</sub>H-contg. vinyl compds. 0.3-5, and other monomers 35-89.7%, crosslinked with 5-40 parts polyisocyanates. Coating an aminoalkyd middle compon.-coated steel panel with a compon. of Al paste, U-Van 20SE, and 12:32:39.5:8:3:1.54 2-hydroxyethyl acrylate-Me methacrylate-Et

acrylate-Bu

methacrylate-monomethyl maleate-methacrylic acid (I)-glycidyl methacrylate

copolymer, waiting 5 min, applying wet-on-wet with a compon. of Coronate EH, a surface adjusting agent, and 30:1:8:25:21:5 2-hydroxyethyl methacrylate (III)-.gamma.-caprolactone adduct-II-I-styrene-2-ethylhexyl acrylate copolymer (Tg 10.degree.), and baking at 80.degree. for 0.5 h gave a film with good gloss, and good H<sub>2</sub>SO<sub>3</sub>, gasoline, scratch, water,

and

weather resistance.

IT 127241-55-8

RL: USES (Uses)

(topcoats, two-coat-one-bake, with metallic acrylic basecoats, for automobiles)

RN 127241-55-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with Coronate EH, 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethylhexyl 2-methyl-2-propenoate,

2-hydroxyethyl 2-methyl-2-propenoate and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA

INDEX

NAME)

CM 1

CRN 86472-86-8

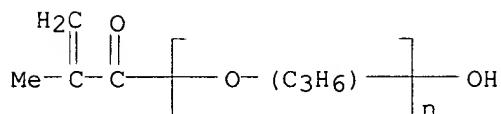
CMF Unspecified

CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

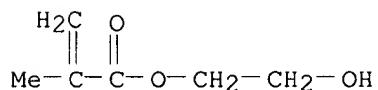
CM 2

CRN 39420-45-6  
 CMF (C<sub>3</sub> H<sub>6</sub> O)<sub>n</sub> C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>  
 CCI IDS, PMS  
 CDES 8:ID



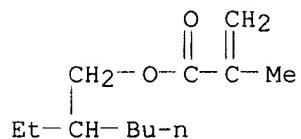
CM 3

CRN 868-77-9  
 CMF C<sub>6</sub> H<sub>10</sub> O<sub>3</sub>



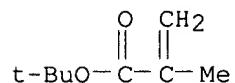
CM 4

CRN 688-84-6  
 CMF C<sub>12</sub> H<sub>22</sub> O<sub>2</sub>



CM 5

CRN 585-07-9  
 CMF C<sub>8</sub> H<sub>14</sub> O<sub>2</sub>



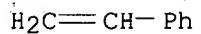
CM 6

CRN 100-42-5  
 CMF C<sub>8</sub> H<sub>8</sub>

WILLIS

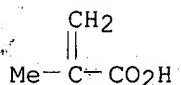
09/382708

Page 169



CM 7

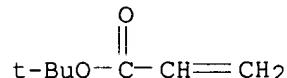
CRN 79-41-4  
CMF C4 H6 O2



L24 ANSWER 42 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1990:119556 CAPLUS  
 DN 112:119556  
 TI Preparation and properties of some water-soluble, comb-shaped, amphiphilic polymers  
 AU Wesslen, Bengt; Wesslen, K. Bodil  
 CS Chem. Cent., Lund Inst. Sci. Technol., Lund, S-221 00, Swed.  
 SO J. Polym. Sci., Part A: Polym. Chem. (1989), 27(12), 3915-26  
 CODEN: JPACEC; ISSN: 0887-624X  
 DT Journal  
 LA English  
 AB Water-sol. comb-shaped polymers were prep'd. through grafting of polyethylene glycol monomethyl ethers (I) onto acrylic and methacrylic ester copolymers by transesterification reactions. The grafting was alkali-catalyzed, and performed in refluxing PhMe soln. or in melt at 155.degree.. The grafting efficiency was on the order of 1 graft/10 monomer units. Epoxy groups in glycidyl methacrylate copolymers were also utilized for grafting. Polymers prep'd. from I were cryst. with m.ps. 10-15.degree. lower than the I used. All polymers were surface active with CMC on the order of 1.5 g/L, and surface tensions of 38-45 dyn/cm. When used as emulsifiers the graft copolymers contg. bulky lipophilic ester groups (2-ethylhexyl, tert-butyl) gave oil-in-water and water-in-oil emulsions from xylene/water with higher stability than those contg. straight chain ester groups (Me, n-Bu, n-dodecyl).  
 IT 125770-26-5DP, Me ether  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and properties of)  
 RN 125770-26-5 CAPLUS  
 CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with 2-ethylhexyl 2-propenoate and oxirane, graft (9CI) (CA INDEX NAME)

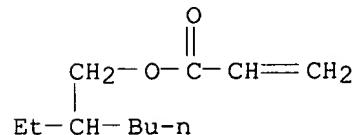
CM 1

CRN 1663-39-4  
 CMF C7 H12 O2



CM 2

CRN 103-11-7  
 CMF C11 H20 O2



WILLIS

09/382708

Page 171

CM 3

CRN 75-21-8  
CMF C2 H4 O



L24 ANSWER 43 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1989:605518 CAPLUS

DN 111:205518

TI Photosensitive lithographic plate compositions

IN Sekiya, Toshiyuki; Misu, Hiroshi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01018142	A2	19890120	JP 1987-174437	19870713
	JP 06105350	B4	19941221		

AB The title compns. comprise a photosensitive diazo resin, polymeric binder,

and copolymer of (A) (un)substituted C<sub>6</sub>-C<sub>12</sub> alkyl, aryl, aralkyl (meth)acrylate, (B) C<sub>3</sub>-C<sub>20</sub> fluoroaliph. (>30% F, last 3 C are sufficiently fluorinated) (meth)acrylates, and (C) polyoxyalkylene (meth)acrylates.

IT 123525-91-7

RL: USES (Uses)

(photosensitive compns. contg., for lithog. plates)

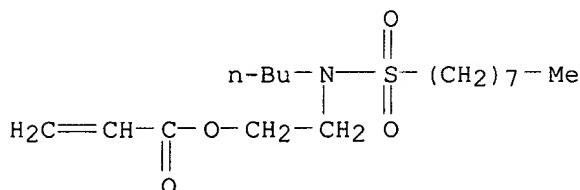
RN 123525-91-7 CAPLUS

CN 2-Propenoic acid, 2-[butyl(octylsulfonyl)amino]ethyl ester, polymer with 1,1-dimethylethyl 2-propenoate and methyloxirane polymer with oxirane mono-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 82583-58-2

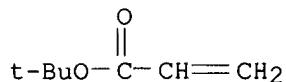
CMF C17 H33 N O4 S



CM 2

CRN 1663-39-4

CMF C7 H12 O2



CM 3

CRN 9041-78-5

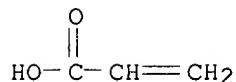
WILLIS 09/382708

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CMF (C<sub>3</sub> H<sub>6</sub> O . C<sub>2</sub> H<sub>4</sub> O)x . C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>  
CDES 8:GD, ESTER

CM 4

CRN 79-10-7  
CMF C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>

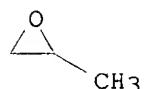


CM 5

CRN 9003-11-6  
CMF (C<sub>3</sub> H<sub>6</sub> O . C<sub>2</sub> H<sub>4</sub> O)x  
CCI PMS

CM 6

CRN 75-56-9  
CMF C<sub>3</sub> H<sub>6</sub> O



CM 7

CRN 75-21-8  
CMF C<sub>2</sub> H<sub>4</sub> O



L24 ANSWER 44 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1989:576302 CAPLUS  
 DN 111:176302  
 TI Thermosetting tert-butyl methacrylate polymer compositions for clear coats  
 IN Hotta, Kazuhiko; Kido, Koichiro; Yamamoto, Shogo  
 PA Mitsubishi Rayon Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 01024871	A2	19890126	JP 1987-181193	19870722

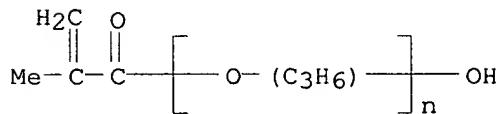
AB The clear coats, useful for automobile bodies, comprise (A) acrylic polymers having OH value (Vh) 50-100 mg KOH/g and acid value (Va) 2-40 mg KOH/g and prep'd. from tert-Bu methacrylate (I) 15-50, C<sub>2</sub> alkyl (meth)acrylates 15-50, OH-contg. C<sub>2</sub> alkyl (meth)acrylates 10-60, CO<sub>2</sub>H-contg. vinyl compds. 0.3-10, and other vinyl compds. 0-59.7%, (B) nonaq. solvents contg. >50% aliph. hydrocarbons, and (C) aminoplasts. A steel panel was treated with Zn<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>, coated with a cationic electrophoretic soln., then with an alkyd resin middle coat, sandblasted, coated with a base compn. of Alpaste 1700NL, U-Van 20SE-60, and a styrene (II)-methacrylic acid (III)-Me methacrylate-Et acrylate-2-hydroxyethyl acrylate copolymer, wet-on-wet coated with a clear compn. of U-Van 20SB, a surfactant, 4:1 Isopar H-Solvesso 100 mixt., and a 25:15:3:30:5:22 I-II-III-4-hydroxybutyl methacrylate-Bu acrylate-2-ethylhexyl methacrylate copolymer (Vh 117 mg KOH/g, Va 20 mg KOH/g), stored for 10 min, and baked at 140.degree. for 25 min to give a product showing good metallic color, brightness and gloss (98%).

IT 123374-55-0  
 RL: USES (Uses)  
 (clear top coats, thermosetting, for automobile bodies)

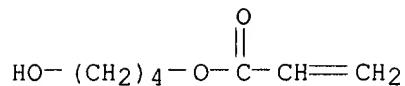
RN 123374-55-0 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, dodecyl 2-methyl-2-propenoate, ethenylbenzene, 4-hydroxybutyl 2-propenoate and .alpha.-{(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)]} (9CI) (CA INDEX NAME)

CM 1

CRN 39420-45-6  
 CMF (C<sub>3</sub> H<sub>6</sub> O)<sub>n</sub> C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>  
 CCI IDS, PMS  
 CDES 8:ID

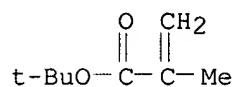


CRN 2478-10-6  
 CMF C7 H12 O3



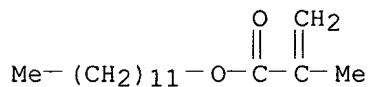
CM 3

CRN 585-07-9  
 CMF C8 H14 O2



CM 4

CRN 142-90-5  
 CMF C16 H30 O2



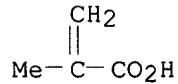
CM 5

CRN 100-42-5  
 CMF C8 H8



CM 6

CRN 79-41-4  
 CMF C4 H6 O2



L24 ANSWER 45 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1979:493087 CAPLUS  
 DN 91:93087  
 TI Coating having a metallic finish  
 IN Ozawa, Hiroshi; Torii, Yoshinori; Okita, Yasuo; Kobayashi, Nobuki;  
 Ishikawa, Koji  
 PA Mitsui Toatsu Chemicals, Inc., Japan  
 SO U.S., 7 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4139672	A	19790213	US 1976-750414	19761214
	JP 52074631	A2	19770622	JP 1975-150499	19751219
	JP 58014266	B4	19830318		
	AU 7620602	A1	19780622	AU 1976-20602	19761216
	AU 500684	B2	19790531		
	GB 1527310	A	19781004	GB 1976-52556	19761216
	NL 7614031	A	19770621	NL 1976-14031	19761217
	NL 171130	B	19820916		
	NL 171130	C	19830216		
	FR 2335270	A1	19770715	FR 1976-38055	19761217
	FR 2335270	B1	19821008		
	CA 1076064	A1	19800422	CA 1976-268102	19761217
PRAI	JP 1975-150499		19751219		
AB	The title coatings having improved repairability with solvent-type air-drying repairing paints, durability, and vividness and needing less energy to harden are manufd. by spraying a water-thinnable compn. based on Al-flake pigments and an acrylic polymer contg. .gtoreq.0.1 equiv/kg solid carboxyl or carboxylate groups on an electrodeposited primer on a substrate, followed by electrostatically applying a compn. based on a dicarboxylic acid and an acrylate copolymer contg. glycidyl or .beta.-Me glycidyl groups. Thus, an aq. compn. contg. a maleated polybutadiene-type paint and dimethylethanamine was electrodeposited on a steel sheet to give a primer with dry thickness 15-17 .mu.. The primed sheet was sprayed with a compn. contg. 40% solids 8:30:15:30:17 acrylic acid-Bu acrylate-hydroxyethyl methacrylate-Me methacrylate-styrene copolymer (I) [55993-98-1] (no.-av.-mol. wt. 25000, carboxyl group content 1.1 equiv/kg solids) aq. emulsion 150, 40% solids aq. 8:30:15:30:17 I Et3N salt [55993-99-2] (no.-av.-mol. wt. 25000, carboxyl group content 1.1 equiv/kg solids, and Et3N content 0.8 equiv/equiv carboxyl group) soln. 50, methylated methylol melamine resin 20, and 50% butyl Cellosolve slurry of scale-like Al powder 20 parts and baked 20 min at 170.degree. to give an intermediate coating with thickness 20 .mu. and contg. 80% resin having no.- av. mol. wt. .gtoreq.3000 and contg. .gtoreq.0.1 equiv carboxyl groups/kg solids. The intermediate coating was electrostatically sprayed with a powd. compn. contg. 5:20:5:40:30 Bu acrylate-glycidyl methacrylate-hydroxyethyl acrylate-Me methacrylate-styrene copolymer [59198-64-0] 90, sebacic acid [111-20-6] crosslinking agent 10, and Resimix L coated surface-smoothening agent 1 part and baked 20 min at 170.degree. to give a coated sheet that exhibited better vividness, appearance, repairability by a solvent-based thermoplastic acrylic resin-scaley aluminum powder paint, adhesion after a 340-h immersion in				

40.degree. water, and durability after being pelleted by silica sand falling from a height of 2 ms, sprayed 240 h by a salt soln., and exposed 1000 h in a sunshine weatherometer than a similar coated sheet not having the electrostatically applied top coating.

IT 64541-63-5

RL: USES (Uses)

(coating compns. contg., for aluminum paints)

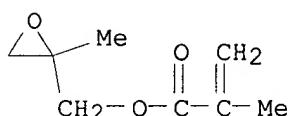
RN 64541-63-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with 2-ethylhexyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-methyl-2-propenoate and oxiranylmethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 41768-20-1

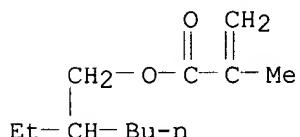
CMF C8 H12 O3



CM 2

CRN 688-84-6

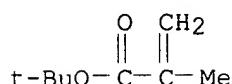
CMF C12 H22 O2



CM 3

CRN 585-07-9

CMF C8 H14 O2



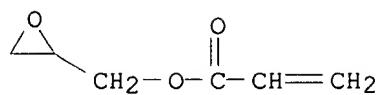
CM 4

CRN 106-90-1

CMF C6 H8 O3

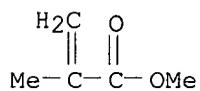
WILLIS 09/382708

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CM 5

CRN 80-62-6  
CMF C5 H8 O2



L24 ANSWER 46 OF 46 CAPLUS COPYRIGHT 2000 ACS  
 AN 1977:586161 CAPLUS  
 DN 87:186161  
 TI Formation of a coating with a metallic finish  
 IN Ozawa, Hiroshi; Torii, Yoshinori; Okita, Yasuo; Kobayashi, Nobuki;  
 Ishikawa, Koji  
 PA Mitsui Toatsu Chemicals, Inc., Japan  
 SO Ger. Offen., 30 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2657284	A1	19770630	DE 1976-2657284	19761217
	DE 2657284	C2	19840913		
	JP 52074631	A2	19770622	JP 1975-150499	19751219
	JP 58014266	B4	19830318		
	AU 7620602	A1	19780622	AU 1976-20602	19761216
	AU 500684	B2	19790531		
	GB 1527310	A	19781004	GB 1976-52556	19761216
	NL 7614031	A	19770621	NL 1976-14031	19761217
	NL 171130	B	19820916		
	NL 171130	C	19830216		
	FR 2335270	A1	19770715	FR 1976-38055	19761217
	FR 2335270	B1	19821008		
	CA 1076064	A1	19800422	CA 1976-268102	19761217

PRAI JP 1975-150499 19751219

AB Metallic finish coatings with improved processability and properties comprised 3 layers, in which the primer layer was based on electrodeposited unpigmented maleated polybutadiene (I) [9003-17-2], the intermediate layer was based on sprayed suspensions of Al flake-pigmented acrylic copolymer compn., and the top layer was based on electrostatically-deposited unpigmented acrylate copolymer powder compns. Thus, phosphated steel plate was primed by electrocoating from an aq. soln. contg. maleated I and dimethylethanamine to give a 15-17 .mu. primer coating after drying. A mixt. contg. 40% solids aq. 8:30:15:30:17 acrylic acid-Bu acrylate-hydroxyethyl methacrylate-Me methacrylate-styrene copolymer (II) Et3N salt [55993-99-2] (no. av. mol. wt. 4200) 50, 40% solids aq. II [55993-98-1] emulsion (no. av. mol. wt. 25,000, av. particle size 0.12.mu., CO2H content 1.1 equivs./100 g resin) 150, Cymel 350 20, and 50% Bu cellulose suspension of leaf-type Al powder 20 parts was sprayed on the primed steel plate and baked 20 min at 170.degree. to give a 20 .mu. coating. A mixt. contg. 5:20:5:40:30 Bu

acrylate-glycidyl methacrylate-hydroxyethyl acrylate-methyl methacrylate-styrene copolymer [59198-64-0] 90, sebacic acid 10, and Resimix L as polishing agent 1 part was extruded, cooled and pulverized to give a powder with particle size 74.mu., which was electrostatically sprayed to a thickness of 30-5.mu. on the above doubly coated steel plate and baked 20 min at 170.degree. to give a coating with better appearance and phys. properties than Al flake-pigmented single-layer coatings prep'd. from the above described acrylic polymers.

IT 64541-63-5

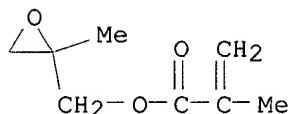
RL: USES (Uses)  
 (coatings contg., 3-layer, metallic finish)

RN 64541-63-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with  
 2-ethylhexyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate,  
 (2-methyloxiranyl)methyl 2-methyl-2-propenoate and oxiranylmethyl  
 2-propenoate (9CI) (CA INDEX NAME)

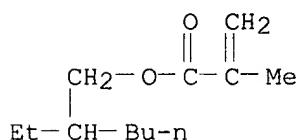
CM 1

CRN 41768-20-1  
 CMF C8 H12 O3



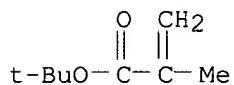
CM 2

CRN 688-84-6  
 CMF C12 H22 O2



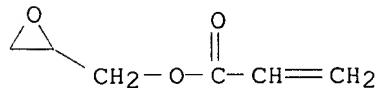
CM 3

CRN 585-07-9  
 CMF C8 H14 O2



CM 4

CRN 106-90-1  
 CMF C6 H8 O3



CM 5

CRN 80-62-6

WILLIS 09/382708

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CMF C5 H8 O2

